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HAPPY NEW YEAR TO OUR PATRONS AND FRIENDS

JANUARY, 1909

THE INDUSTRIOUS HEN

ONE YEAR 50c.—THREE YEARS \$1

AN ILLUSTRATED MONTHLY
FOR
POULTRY, LIVE STOCK AND THE FARM

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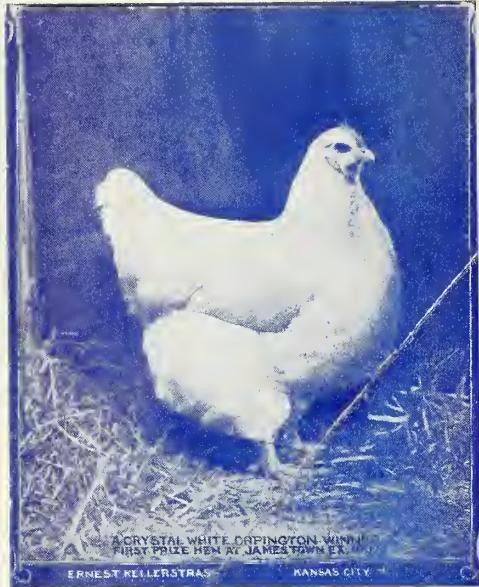
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DEMAND FOR AN EGG INSPECTOR—J. C. CLIPP



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THE INDUSTRIOUS HEN

An Illustrated Monthly for Poultry, Live Stock and the Farm

Vol. 5

Knoxville, Tenn., January, 1909

(Whole No. 56) No. 8

DEMAND FOR AN EGG INSPECTOR

WRITTEN FOR THE INDUSTRIOUS HEN BY ASSOCIATE EDITOR J. C. CLIPP

ISN'T it a shame how the egg business is abused? I will venture to say that there is a greater swindle in the egg business than any other farm product. If we have meat, butter and fruit inspectors, why not have an egg inspector? Not long since the writer was in one of the extreme Northern cities and visiting one of its market houses found a number of cases of eggs labeled "strictly fresh," when they had been in cold storage for over a year. Cold storage eggs are easily detected, if you understand the art. Our laws compel the artificial butter manufacturers to stamp their product "Oleo," and why not be as strict with cold storage eggs? They should be treated with the same stringency any other artificial articles are. If eggs were labeled true to name the "fresh egg" trade would realize almost double the price it now does and for the reason cold storage eggs would move very slowly, and the fresh eggs consumed in preference at a premium. The cold storage egg is hard to detect from outside appearances, but easily detected in quality. Chemicals used in preserving eggs, preserve them in fairly good condition, yet they are not fresh eggs and should not be offered to the trade as such. The old time lime solution is about out of date. Under the new improved methods of preserving eggs some of them come through in fair condition, yet that does not justify dealers and packers in labeling and selling them as "strictly fresh."

The cold storage men tell us that a great many eggs are not fit to use when freshly laid. This argument will not help his condition in the least. I am quite sure such eggs will not improve in cold storage. The trouble is this: eggs are bought up during the summer months when cheap, placed in cold storage and held for higher prices; consequently in the winter or spring when eggs begin to get scarce and high they are resurrected and palmed off on the public as fresh eggs. The dealers and packers are not all who are guilty of this weakness. I know personally of farmers who packed eggs during the summer months and are now offering them on the market as strictly fresh eggs. This is wrong and should be denounced by the proper authorities. Some of those farmers try to keep eggs in various ways, some are kept in bran, some in oats, and some in salt; while some try to keep them in dark and damp cellars, only to become musty and stale. Nevertheless offered in the markets as "strictly fresh eggs." Eggs that are packed in oats and wheat bran soon loose their moisture and are worthless, but that does not prevent them being offered to the trade as fresh eggs. The salt packing retains the fullness of the egg but makes it so strong that they are unfit for use for any purpose; hence if it were possible to stop the practice of offering these eggs to the public, fresh eggs would be bringing twice the amount they are today. The reason is obvious. Hundreds of people will not buy eggs at any price, fearing they will get swindled by having storage eggs palmed off on them. These same people would be liberal buyers if they had the confidence and knew that they were getting strictly fresh eggs. They would not only be liberal buyers but would be willing to pay good prices. I know of buyers who occasionally get eggs from private parties and pay a premium on market prices. Why not put the "lid on" and have "fresh eggs" as well as "dry towns?" There are a number of bad fresh eggs layed on every farm or egg plant. This condition is due to natural consequences; hence no violation of good faith on our part. Such conditions are largely due to the hens eating certain kinds of food, resulting in badly flavored eggs. While some fresh eggs are layed with blood-

spots rendering them unfit for use. All such eggs are free from deception and no one is to blame for such conditions, while cold storage eggs are the result of money sharks.

There could be no harm result from cold storage eggs if they were offered and sold as such. But as it is they are offered and sold as "strictly fresh eggs," which is a deception and a detriment to the egg trade generally. If only fresh eggs were admitted to the market possibly as much or more money could be realized, and by the producer, where it justly belongs. The producer should have the profit and not the "middle man" or grafted as is the case in many



PRINCESS CHICK.

First pullet in S. C. Rhode Island Red class, also color special for best colored female in show. Bred and owned by F. G. Davis, Nashville, Tenn.

instances. I wish every reader of THE INDUSTRIOUS HEN could see some of the cold storage eggs that are placed on the market and offered as strictly fresh. The writer has had the opportunity of seeing what seemed to him as being an outrage practiced on the people in the shape of bad eggs. We were made to see the cause of fresh eggs selling far below their value. Lack of confidence in many instances, while with some the cold storage eggs could be procured for less money. There are people who will buy an inferior article because it's cheap. It is plain to be seen that the cold storage egg trade as it now exists is a detriment to the fresh egg trade, which is a heavy loss to the producer.

BUFF ROCKS AN IDEAL FARM FOWL

WRITTEN FOR THE INDUSTRIOUS HEN BY C. F. FALLIN

ENTIRELY too little consideration is paid the needs of our farmer friends in the production of fancy fowls. If the fanciers of the land were to think more about the needs of the farmer, as well as the production of fancy feathers, the time would soon come when we would not hear the question asked so often "why do farmers raise so few fancy fowls?" Suppose we stop for a moment and ask ourselves the question "What does the farmer need?" In the first place he wants a hardy fowl, one that will thrive under ordinary conditions found on the average Southern farm; and did you ever think what this means? You may think and truthfully advertise your stock as vigorous, when in your own yard, surrounded by all the comforts and conveniences known to modern poultrydom. Not much trouble for your chickens to live and do well when they are fed all the balanced rations, morning mashes, condiments, etc., and housed and cared for as carefully and tenderly as babes, but when you ship birds to the ordinary farm how different the conditions there. Your birds are particularly fortunate if they get a rail pen in which to live, and plenty of good corn to eat. No wonder so many farmers say that fancy chickens are not healthy—one experience in paying large prices for fancy stock only to have them sicken and die after such a change of conditions is usually enough for our practical farmer friend. You may talk to him all you want to about "vigor" and "vitality" but he comes from Missouri; you must "show

a reason. Being comparatively a new variety they have not had time to be inbred to and beyond the danger point. Then since the beginning there is no one who has enjoyed a monopoly of them, as they have been developed by a host of enthusiastic and intelligent small breeders, who, guided by the direction of the American Buff Plymouth Rock Club has paid particular attention to rearing them under sane and reasonable conditions, that not only promotes vigor but preserves it as well. Then another natural advantage that Buff Rocks have over all other fowls with which I am familiar, and I have tried them all, is that while they do not have the profusion of loose, fluffy feathers so common to some breeds and varieties, they do have a profusion of soft warm down, closely laid on the quill of each feather; this makes them a warm comfortable coat that sheds water readily and keeps them comfortable in the severest weather; and when the other hens are shivering in the sunny spots, half frozen, you will find Buff Rocks singing and shelling out the nice brown eggs that will win favor for the farmer, for it is the goods our farmer friend is after, and if he can get eggs at this season when his neighbor is geeting none, and when he can sell them at 40c. then he is tickled to death. Yes, sirre; Buff Rocks will come nearer thriving under ordinary farm conditions than any fowl I know, even if they were taken from the most modern house and most favorable conditions. But few of the Buff Rock breeders of today are asleep to the needs of their customers, and I believe they are the most progressive lot of fanciers along this line that we have. To illustrate: not a hundred miles from where this is being written there is quietly sleeping a Buff Rock cock that has many blue ribbons from the largest shows to his credit, and to my knowledge he could not be purchased tonight for five hundred dollars; yet, he is living in an open front coop that cost only five dollars and his owner does not fear to let him be exposed to the severest weather. I doubt if he has ever been confined for a whole day in his life except when he was in the show room or being fitted for it. Not only is there a reason, both natural and supplied, for the Buff Rock's "hardiness," but they are "prolific," they lay eggs; they lay eggs when eggs are eggs; and they lay plenty of eggs. I have known a Buff Rock pullet to lay 89 eggs in 94 consecutive days, and they don't occasionally make such records and then cease, but their average laying will exceed that of anything I have ever tried, and I have been a chicken crank a mighty long time and have tried nearly every thing that wears feathers down in this part of the country, and I might say that did not wear feathers too, for I have had this summer Buff Rock hens to lay eggs that was almost naked in the moult. Three days during September I gathered 9 eggs from a pen of 11 Buff Rock hens. Below I give a statement of my egg record for 6 months, from Jan. 15 to July 15, 1908. Read it; see if you think Buff Rocks lay, and these birds were kept in a wire front house where they had no protection from the wind and weather except a good roof; and only good wholesome food to eat, with none of your condiments and medicaments that so many use to force egg production. The most of them are still doing business and the record for the entire year will be coming later.

January	15	19	115	6.06	.40 pr ct.
February	29	18	294	16.33	.56 pr ct.
March	31	17	380	22.35	.72 pr ct.
April	30	13	293	22.54	.75 pr ct.
May	31	11	240	21.91	.70 pr ct.
June	30	11	190	18.00	.58 pr ct.
July	15	9	75	8.32	.55 pr ct.

Total, 181A.14 1587 113.34 .62 pr ct.

Not only do they lay eggs but when you consider chicken meat, well none but "niggers" and "methodist preachers" can appropriately speak of the quality of Buff Rocks. They have a nice large carcass with plenty of juicy, sweet meat that is always ready to eat, and it grows quickly. I have had good large friers at eight and ten weeks old. In this particular they are second to none on earth; and they dress so easily, no pin feathers to bother with.

In conclusion let me say if you contemplate raising fancy chickens try Buff Rocks and if they don't satisfy you write me and let me know. If they don't come up to all that their hosts of friends claim for them, including myself, I will eat the feathers.



First prize S. C. Brown Leghorn Cock at Augusta, Ga., Nov. 2nd to 7th, 1908, and is acknowledged to be one of the best in the country. Bred, owned and exhibited by Dr. H. T. Boyd, Sweetwater, Tenn.

him," as so many of our fancy birds fail to make good in his hands.

Then in the second place he wants a prolific fowl; one that is practical from every point of view; one that grows quickly, lays plenty of eggs and is good to eat just any time. You dear Fancier friend can spend lots of money and lots of time on fine feathers, but our country cousin wants the goods, and if he is to ever be our friend we have got to give him the stuff; no foolin' him; he knows what he wants and just so long is he going to keep dunghills.

While the beauty of a bird is only of secondary consideration to the farmer it is yet a consideration that he will not ignore, for beauty in bird or beast is something which our farmer friend is of all most competent to judge. Living next to nature he naturally learns to love nature and natural beauty.

Now that we have considered some of the farmers needs, let's see if there has been, or is a bird that will ever begin to fill his requirements. If I were allowed to answer this question I would say there is. If so then what is the name of this variety or breed? It is the Buff Plymouth Rock. But some one will say you might expect that of Fallin, for he breeds Buff Rocks, so let's look into the matter a little closer. Buff Rocks are particularly hardy; for this there is

POULTRY ITEMS OF INTEREST

WRITTEN FOR THE INDUSTRIOUS HEN BY J. A. THORNHILL

Reader, did you know to be successful, in our poultry yards, we must use system, study, seek, service, strain, scope, sanitary, superiority, skill, satisfaction, success, seasonable, on time, stickability, free efforts and a desire to have or be among the best?

When your poultry aspirations seem almost gone, have the above near at hand, carefully study them. One or more of them will no doubt be the cause of your taking a new interest in poultry, especially in the last sentence, "a desire to have or be among the best."

System—I consider the most important. As it can be applied to all departments of our poultry work; a system of doing work, selling stock and eggs, caring for fowls, mating, housing, yarding, buying supplies to our best advantage, and keeping books on all; can be applied to "System."

Study—Includes the studying of poultry journals, fowls, the best way of doing everything, the composition of the food you are feeding, and most of all to learn more about the cause you represent.

Seek—To have the best your money and time will afford; more poultry knowledge, and seek to gain by your past experience.

Service—First allow your flock and business your time, if you have any left you cannot find use for apply it as we have done, and as many are doing today—do not throw it away. Strive to improve every opportunity given you. Life is too short at its longest.

Strain—Takes in, what is termed this busyday—A lay-

fowls from those that are not so? Can you separate the practical from the non-practical items about your plant? If not skill is lacking.

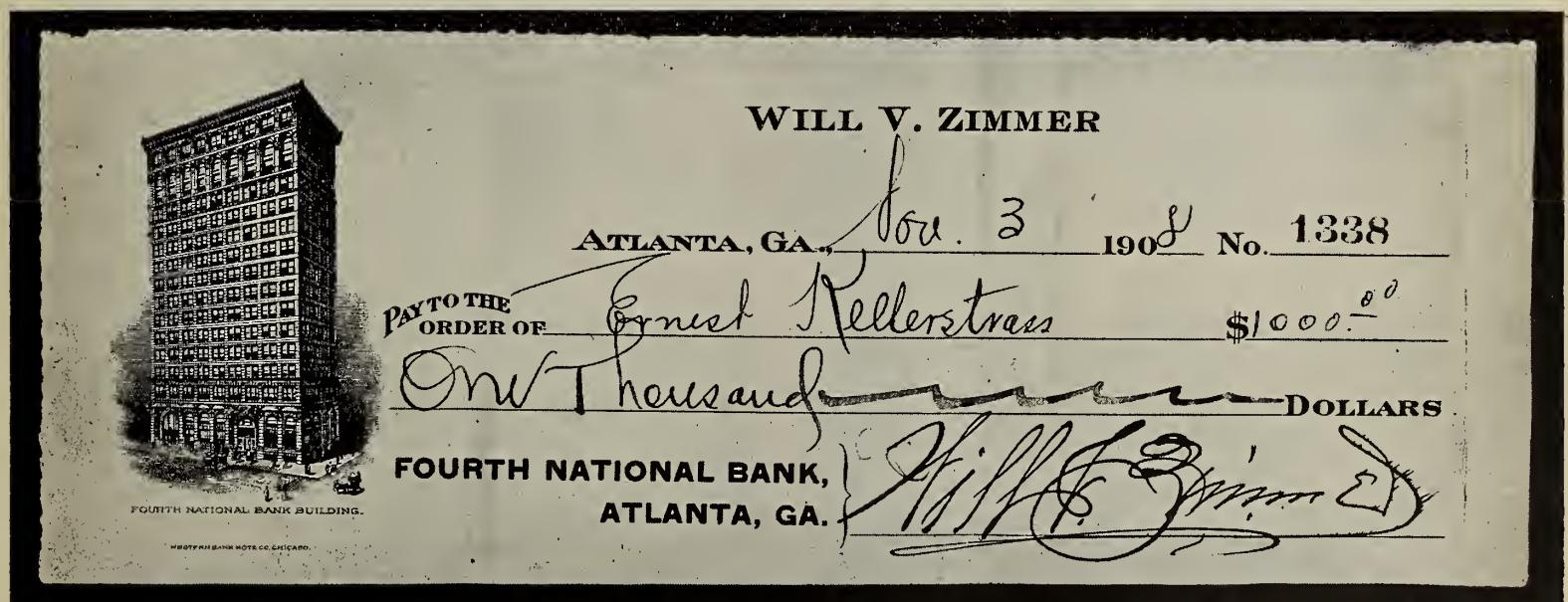
Sobriety—Do you consider your imagination soberly? Treat your poultry surroundings with the seriousness you should?

Satisfaction—Are you satisfied with your progress, with those mongrel hens you have around you; in brief, are you satisfied with your progress whether profitable or not? If you are and your methods are not profitable, you are on the road to despair.

Success—This is the most precious word to us. So few ever reach it as it can and should be. Can you see in the distance yourself as a prosperous poultryman, one who has climbed the last round of his ladder of success? You may see yourself as a success, but on the last round of the ladder—not so. We can never get to that point where we can not improve in some way.

Seasonable—Do you feel any care for your fowls in due season? Do you arrange your advertising to suit the season? Renew your subscriptions to journals before they run out; answer your letters on time, or do you put them off for some minor pleasure?

Stickability—Have you enough vim and want to be somebody in the poultry world to help you over the waves of disappointments that are sure to come sooner or later? If you haven't and are not already in poultry culture you had better stay out, and take up some other line of business.



ing and winning strain, Rocks, Dots and Leghorns, also other breeds are singularities of strain. You must have one, better to combine laying and winning in the same fowl.

Scope—Embraces the field you are advertising in, the paper and the readers. Are your present methods profitable? If not, you had better seek other means of obtaining customers.

Sanitary—Is applied to the hen-houses, yards, coops, etc. Regulations that will tend to prevent sickness in your flock, comes under this head. We were just talking of throwing time away, much of it can be successfully used under this heading.

Sympathy—Have you any for those fowls roosting in the tree tops, on fences, in cold, half built hen-houses, half cared for on cold winter nights?

Superiority—Are your methods superior to those of last year—your fowls, your business tactics or any other branch of your poultry business? If not, you are still one year behind. There are none who are "all wise," but the most of us find room for improvements in our methods.

Skill—Do you know what to do in and around your plant as it should be done? Not as most of us, go at it in a hap-hazard way, letting our efforts strike where they choose, whether to our advantage or not. Can you go into your yards and pick your best breeders, layers and healthy

It takes a man who has stickability to make a successful poultry raiser.

Free Efforts—You can prove in this world, to your self and others, that you are a true fancier. Are the efforts set forth to improve your methods, fowls, and everywhere you are needed free at all times, or does it come spasmodically on the drag one day and rush the next? So many neglect their fowls for a season; let them receive orders for eggs, or gain a prize in a show and they will redouble their efforts. After the excitement from this subsides will get into the "same old rut again."

This article is for beginners only. If your poultry aspirations are thoroughly seasoned as outlined "success is yours."

LIVE STOCK AND THE FARM

There is renewed interest in Tennessee in sheep raising, particularly in East Tennessee, where the number of sheep is largely on the increase. The farmers propose at the next Legislature to push hard for a more drastic dog law. No section of the State is more favorable for sheep raising, and nowhere are they more profitable. An indication of its increase is shown in the fact that in June a single breeder made one shipment from Bristol, Va.-Tenn., of twenty-five cars of lambs. They went to the Jersey City market. Berry culture is also on the increase, as shown by a shipment of two cars of strawberries from Morristown, Tenn., a place which had always been a buyer.—T.L.B.

HOW I DID IT.

WRITTEN FOR THE INDUSTRIOUS HEN BY V. H. COUNCILL

IT may be a matter of considerable interest to some to know how a particular strain of fowls is built up. Those who have passed through the experience, spent many days of anxiety and care, having many failures and few successes; wonder at their own ignorance and stupidity when the sources of knowledge and information are so manifold. It is strange to see how many people are prejudiced against poultry journals, assuming that they themselves know more than those who have devoted many years to the study of the subject. The poultry journal may not teach you everything, but I firmly believe one can learn more about the poultry business in six months from THE INDUSTRIOUS HEN than he could stumble upon or learn by asking his neighbor in six years. I propose to give you the steps by which I have built up the strain of Blue Andalusians which was by common consent pronounced by all at the great Hagerstown fair to be the finest collection of Blue Andalusians exhibited in this country; thus taking into consideration that there was exhibited the largest class of Andalusians ever seen at Hagerstown. Besides winning three firsts, two seconds and one third, I won the special prize cup offered by the Association for the best pullet of any variety in the show. Judge Minnick said: "You have done in one year what no one else has done in ten." Mr. F. N. DeLancy, editor of the *Poultry Item* said my exhibit of Andalusians was unquestionably the best ever seen in this country.

I first saw this variety of fowls in 1896. In 1900 a friend gave me a fairly good pair of birds. Being determined to have the best obtainable and thereby bringing in the



Typical Blue Andalusian Cock, bred by V. H. Councill, Warren-ton, Va. The Standard of Perfection says: "The Andalusian has the distinction, unique among domestic fowl, of wearing the national colors—red, white and blue—its face and eyes being red, its ear-lobes white and its plumage blue."

best blood possible, I set out to build up a strain of these magnificent birds. I shall tell you of the experiences through which I passed before reaching the top. You can draw your own conclusions concerning my treatment by the breeders of whom I bought stock and eggs. I do not mean, however, to cast a reflection upon the honesty of any with whom I dealt. I first ordered two settings of eggs from a breeder in Pennsylvania. The eggs came in good condition. I set them under two of my best setting hens and was disappointed on the twenty-first day to find only nine chicks four of which were blue. I raised two to maturity, one being pure white, the other a black hunch-back. The former was soon mixed with a flock of White Leghorns and could not be distinguished, while the latter found her way to the pot. I next heard of a breeder of Andalusians near Washington, D. C., visiting his yards containing about one dozen fairly good birds I bought a cock-bird that was recommended to be a good one. In a short time, however, his hackles turned a

rusty brown and had the appearance of having been dyed. He also went into the pot. I next got on a better trail and after considerable correspondence bought two settings of eggs from the pen that won first prize at Madison Square Garden the preceding winter. Out of this lot of eggs came several fine birds. However, I had the misfortune to lose nearly my whole flock of one hundred birds with roup. I sold about half of those that were not sick and lost nearly all of the others. I saved, though, my best cockerel and eight pullets which gave me my start for another year. Not discouraged, however, I sent to a breeder who had in his possession the pen of hens that had taken the first prize at the St. Louis Exposition, paid him a fancy price for two settings of eggs and raised two birds I thought good enough to keep for breeding. They proved to be the best cockerel and pullet I had ever seen. I have both of them in my yards today and they have both won prizes wherever shown. The same year I bought eggs from two other breeders. From one lot I raised only a fair cockerel and from the other several birds of doubtful quality. One of these birds I sold at a nominal figure while the others I gave to my friends. I wanted the best that money could buy, so sent to a breeder out in the middle west who said he had the highest scoring birds in the country. His stock proved a fake, being about the meanest I ever saw. Now in conclusion let me say that by bringing together these two strains, the one that took first prize at Madison Square Garden and the one that took first prize at St. Louis, I built up (by careful selection) my present strain of which I am justly proud. I can go in among my cockerels with a few grains of corn or wheat, shut my eyes and pick up a prize winner every time. To see this lot of cockerels together is a sight worth going miles to see.

NATURE REMOVES THE DOWN

"E. L. Methol, N. Y.: I have had experience with ducks for two or three years. The fuzz or hair on my young ducks is coming off and their necks are bare. Will you kindly help me and tell the cause and remedy."

Perhaps by the time this reaches you you will have to come to the conclusion that you were a little too anxious, and that there is not much the matter with your ducklings. I don't think there is much cause for alarm. Of course, there is a possibility of a skin or feather difficulty, but these are so rare in ducks that I think the chances are that the down has been rubbed off or that nature is preparing for feathers to come. Last year one of our good friends wrote that the feathers from his Indian Runners were coming out, at a little past midsummer, and he was quite troubled over it, being a beginner; but it was a perfectly natural occurrence, the youngsters taking a notion to a new coat at about this age. We have a brood five weeks old, half-feathers, and about half grown. It seems rather unnecessary for them to spend vitality in growing a second dress at three months, but that seems to be nature's way of managing the costume question for ducks. How they exist under the present broiling conditions I cannot comprehend, but they seem far more comfortable than the hens; in fact, I have rarely seen more contented appearing stock, despite the fact that they are yarded and have no pond to swim in. Perhaps those handsome peach trees in the yards help to account for it. The shade of such low, dense heads is quite delightful.—C. S. Valentine, in *American Agriculturist*.

THE WEIGHT OF A QUART OF FEED

For convenience in figuring rations we give a table of the weight of a quart of feed, as furnished by the Connecticut Experiment station, as follows:

	Pounds.
Cottonseed meal	1.5
Linseed meal, old process	1.1
Gluten meal	1.7
Wheat bran, coarse	0.5
Gluten feed	1.2
Wheat middlings, coarse	0.8
Wheat middlings, fine	1.1
Mixed wheat feed	0.6
Corn meal	1.5
Oats	1.2
Rye bran	0.6

GOLDEN NUGGETS

WRITTEN FOR THE INDUSTRIOUS HEN BY MICHAEL K. BOYER

CAREFULNESS in dressing poultry pays for the extra pains taken. The pinfeathers must all be removed. The carcass should be dressed immediately after killing. To allow the feathers to remain on for several hours will hasten decomposition.

In France parts of a carcass can be purchased in market—legs, wings, heart, or any part wanted. In this country it is the whole thing or nothing.

How strange that epicures who delight in the white-skinned turkey or duck, should be so set against the white-skinned chicken. But it seems nothing will overrule this prejudice.

Neatness brings buyers. The best always goes first. Quick growth influences quick sales. The markets have a surplus of poor stuff. Poultry buyers are educated—they want the best.

It is a mistake to discard a breed on the supposition that it is not a hardy one. Hardiness can be instilled in any breed by proper housing, proper food, proper attention, and systematic breeding.

The laying hen is not apt to become over fat. Nevertheless, it is a mistake to keep her on a diet of corn expecting her to manufacture eggs from that article. Corn is no egg food.

There is no better germ-slayer than an ounce of carbolic acid added to a pail of whitewash. Give the walls and ceiling of the hen house a good coating, working it in rather thick in all cracks and crevices.

Fresh eggs find ready buyers and command respect. Bad eggs cause trouble. Spoiled eggs go to the tanners. Condemned eggs, though not spoiled, are sold to the factory for printing calico. Cracked eggs are often sent to the packing houses, where they are separated and canned.

It seems as though nothing is so poorly marketed as poultry. If alive they are in a crowded coop, all sizes and colors. If dressed they are so often unattractive. There is no reason why dressed chickens cannot be put on the market in a more inviting condition. Buyers do not hesitate on price for a nice, clean, tasty article.

Over-exercise toughens the flesh of even a young fowl. A good breast is half the race for a valuable table fowl. A hen bagging down behind is very unattractive as a carcass. The attempt to properly fatten poultry while on a free range, is to throw away time, money and good eating.

In buying feed, remember that white middlings are better than the brown, that white oats are to be preferred to the black, that coarse bran is better than fine, that hulled oats are better than oats with the hulls on, that white corn is not so fattening as the yellow variety, and that Kaffir corn is an excellent grain, and should be more extensively fed.

A favorite cholera cure in the West is made as follows: Red pepper, 2 ounces; powdered asafoetida, 2 ounces; carbonate of iron, 4 ounces; powdered rhubarb, 1 ounce; Spanish brown, 6 ounces; sulphur, 2 ounces. The mixture is made into pellets with flour and water and given three times a day. The mixed powder is added to the soft food as a preventive, giving a table-spoonful twice a week to every two dozen fowls.

"Farm-raised stock" is not always a guarantee of health and vigor. If "farm-raised" fowls are allowed to drink from dirty pools in the barn-yard; if they are compelled to roost outdoors in all sorts of weather; if they must hunt their grain among the waste in the manure piles; we had rather take our chances from yarded stock. We like to know what our fowls eat and drink, and how comfortable they are at night.

The late P. H. Jacobs once said that outside of the cold storage process, which is too expensive for the farmer, there is no mode of preserving eggs so as to keep them fresh for six months. When we use the term "fresh" we mean similar in appearance to an egg newly laid. Even where the cold storage method is used there is something to observe before the eggs are placed therein, and in any case they differ from those recently removed from the nest. An egg is a perishable article. It may not decay as rapidly as a strawberry, but sooner or later its contents change.

In a paper read before the French Academy of Science,

Prof. Balland, some years ago, showed by new and exhaustive analysis, the value of eggs as food and the enormous consumption of this product of the domestic hen. He showed that 25 per cent. of the egg has a nutritive value; the rest is water. Ten eggs without the shells equals just about one pound avoirdupois of meat. During one year Paris consumed 538,000,000 eggs, or something near 125,000 dozens every day. On the basis mentioned these eggs are equivalent to the meat from 168,000 steers per annum, figures that are almost staggering, but true if science is true.

The only absolutely successful way to ship iced poultry is to use crushed ice. It should be shipped in barrels that are strong, with holes in the bottom. First place a layer of excelsior on the bottom of the barrel, then a layer of crushed ice. Lay the fowls neatly together and then cover them with another layer of crushed ice. Keep this up until the barrel is filled. When the top is reached, cover the last layer of fowls with an inch and a half of ice. The finer it is crushed the better. Place over this some excelsior, and over the top burlap. Poultry shipped in this way will never bruise, and arrives in the market in excellent condition. Ice crushed as it is done for bar-rooms is the kind to use in



H.O. Schilling 1908.

A CRYSTAL WHITE ORPINGTON WINNER BRED & OWNED BY ERNEST KELLERSTRASS KANSAS CITY MO.

shipping dressed poultry. The crushed ice seems to form a crust in each layer, and keeps the poultry as sweet and nice as when first shipped.

The Ontario Experiment Station made a series of experiments in testing fertility of eggs, and which are interesting. They separated ten laying hens from the male, and placed the eggs in an incubator each day to test them. During the first four days 70 per cent. proved fertile, fifth day 61 per cent, sixth day 60 per cent, eighth day 12 per cent, ninth day 2 per cent, and tenth day all were infertile. Then they put a male with six laying hens which had not been with a male, and tested the eggs in the same way. They found 30 per cent fertile on the third day, 42 per cent on the fourth day, fifth day 50 per cent, sixth day 60 per cent, seventh day 70 per cent, eighth day 68 per cent, ninth day 70 per cent, and tenth day 74 per cent. It would seem then that nearly three-fourths of the eggs are fertile four days after the male is taken away, or a week after the male was put in. There would probably be some difference in the males however, and number of hens might have considerable influence.

POULTRY ON THE FARM

WRITTEN FOR THE INDUSTRIOUS HEN BY AN OLD FARMER

POULTRY PICKINGS

It is now time to study and work for winter eggs. If certain conditions are met you can have them. What are the conditions?

A troupe of young turkeys are the best hands to clear your meadows of grasshoppers. They certainly make them pay for their keep.

A writer in a Southern poultry journal advocates capons to care for young chicks instead of a brooder. He claims a successful experience but somehow we are inclined to doubt its general practicability.

Unless you want eggs to hatch, roosters are not needed with the hens. They lay better without them. For commercial eggs roosters are a dead expense and a nuisance. Infertile eggs keep much longer and better.

When the farmer buys fine eggs for hatching he should remember that they are to be handled with care. No jolting in the wagon and no exposure to freezing cold. Get them under the hen at once and see that she has everything all right.

A special reason for woodland range for the hen is that she can scratch up so many slugs and worms, and pick bugs and beetles from rotten wood and under bark, and catch all kinds of insects in various places. These give proteids which are so necessary in egg production.

Your breed must be selected with purpose in view. Do you want eggs? Do you want meat? Or do you want eggs and meat combined? Each of these purposes has its special breed or breeds. You must go over the whole field of your conditions and then select for yourself.

It pays every farmer to have a poultry-wired yard for his fowls in which they may be inclosed when desirable. Of course they do better with wide range unless very carefully tended, but now and then you may want to shut them in to keep them off certain crops or for other purpose.

The moulting season is a trial. If possible give the fowls open range and feed in litter so they must work for support. Give plenty of meat and green feed as well as grain and begin beforehand so as to have the system ready to renew the feather coat as soon as possible. Then for eggs while the price is high!

Hens have been known to lay two eggs a day but very rarely. In such cases they generally skip a day just before or just after, but the Maine Experiment Station had a pullet that laid eight eggs in five days. A prominent poultryman of Middle Tennessee could give our readers some facts from a flock that laid two eggs a day. THE INDUSTRIOUS HEN will be glad to give publicity to such a statement, for the sake of science.

WHAT GRANDMA SAYS

In the main it is the wife's business to look after farm poultry but her husband should build all necessary houses, coops and yards.

If you expect any profits in the fall don't allow your hens to drabble young chicks in tall grass during the spring and early summer.

Put up a martin pole with seven gourds on it to keep the hawks away. A round rock buried in the ashes of the fire-place doesn't act so well as it did in your grandmother's day.

A hen can't make eggs out of air and saw-dust. The egg comes from nutrient in the food she eats and there must be more of it in the food than in the egg for it takes something to support the hen.

When a hen came off with a fresh brood my mother used to tie one end of a carpet string to the hen's leg and the other end to an apple tree. The hen was thus held captive for many days. Who can tell why?

Don't feed your fowls so they will eat too much at once. Don't throw out food for the whole flock to scramble after. Some will get too much and some too little. Feed through hoppers or better still have scratching sheds where the feed can be scattered in a litter of straw or leaves and obtained at leisure by scratching.

GREEN FOOD IN WINTER

When scarce in winter a good deal of green feed may be obtained for fowls by soaking and sprouting grain. After

soaking 24 hours, spread a thin layer in a wooden box and keep it in a warm place. Moisten the grain daily and allow the superfluous water to escape. In a few days the grain will grow and make a thick mat of soaked grains and green stuff which can be cut off in sections and fed to fowls. It may be obtained with less work and greater facility in a green house. Otherwise the scheme may not pay unless you can't get green feed in any other way.

OLD HENS UNPROFITABLE

Old hens soon become unprofitable and should be sent to market or put into the home pot. Usually a hen's best year is her first year. After that she degenerates gradually. It does not pay to keep her after the second year. In this we speak of eggs for commercial purposes. Of course breeding stock may be kept for an indefinite period for the sake of their progeny. One reason that old hens are not in less favor is that their owners rarely know just how little they do lay. The trap nest tells the tale.

FACTS ABOUT GAPES

Gapes are produced by a small worm which is a parasite on the common red worm which the chick eats. Gapes are worse in wet weather because red worms then come out of the ground and are eaten. The gape worm hurts none but small chicks, into whose windpipe it makes its way after being swallowed. The reason chicks do not have gapes everywhere is that there are no gape worms in some places. There is no special cure for gapes. You may draw the worm out of the chick's windpipe with a horse-hair but this takes too much time. The only practical way is to prevent the trouble by keeping the chicks on a wood floor, or sheltered dry ground, where they can get no worms till eight weeks old, when the parasites cease to hurt them. Moving your brood to fresh ground often has the same effect. It would always do so, if you could be sure the new place were not also infected with the gape worm.

WISE WORDS BY UNCLE BEN

If you would avoid limberneck allow no dead carcasses or maggots on your farm.

The most eggs in a given period do not always bring greatest net profits. Expenses must be considered.

Never count your chickens before the eggs are hatched, was an injunction when I was a boy and it is a good rule to follow yet.

Don't leave feeding the hens entirely to the hired hand. To be sure of eggs this is one duty that the farmer must look after a little himself.

Every farmer can have plenty of chickens and eggs if he will. They save meat and are more wholesome than so much bacon. Chicken soup for dinner now and then is certainly fine.

Letting chickens roost in the trees is now out of date. Pure air is necessary but it is better administered under cover where there is no interference from snow and rain. Also cold winds are known to interfere with laying propensities.

Do you notice how regularly your chickens pick grass even in the cold days of winter? Grass should be provided for them all the year round. Bluegrass is the best as it stays green all winter. Sow seed all around the house and barn and outbuildings.

If you want plenty of eggs by all means have a woodland range for your hens. Then scatter cracked grain in the leaves where the hens must scratch for all they get. Nature fashioned the hen to feed in this way and man can't change her habit with impunity.

WORMS IN FOWLS

There are various kinds of worms that work destruction in your fowls. You often think it is cholera when it is some deadly species of worm. It is said that no less than twenty-five different kinds of tape worms inhabit poultry. The way to get rid of these pests is to thoroughly clean up your premises. If you have any sick, isolate or destroy them. To those not too far gone, administer half a tea-spoonful of epsom salts to each fowl on empty crop and follow with teaspoonful of turpentine. Every few days give more turpentine.



HOW TO GET EGGS IN WINTER

WRITTEN FOR THE INDUSTRIOUS HEN BY PLUMMER McCULLOCH



THIS time of year is when we should be getting lots of eggs if we are to get our share out of the high prices that winter eggs command. The editor is no doubt flooded with letters asking "Why don't my hens lay?"

The editor has his own affairs to look after and while he is usually willing to help everyone he can he cannot as a rule tell you just why your hens don't lay unless he knows something about the conditions that surround them. Some people think that if they throw their hens all the corn they can eat that if they don't shell out the eggs in response they "don't pay," "eat their heads off" and many other things that are unreasonable.

To get many eggs in winter it is necessary to have early hatched pullets or yearling hens that have moulted early. Pullets preferred. We must have comfortable houses and not have the stock over crowded. Feeding is very important, but there are other things that command attention besides the feed question. Plenty of fresh, pure water is an absolute essential. Grit, oyster shell and charcoal are a necessity also. Now to advise anyone just how to feed their hens to get winter eggs is no easy job, as what would strike one man would not another. It depends something on the houses, the breed, the care given and many other things.

I never have any set rules for feeding, as a man can better tell what his hens need by studying their actions a little better than I can tell him several hundred miles away.

In feeding for winter eggs we must strive to feed a variety of foods. A variety. Herein lies the success or

wheat or half wheat and oats. At noon a few handfulls of cracked wheat and some cracked sunflower seed scattered in the litter will keep the birds busy for some time. The next day you can feed a mash. I feed occasionally soaked oats. The birds relish this and it is good for a change.

I get stale bread from the bakers at 1½c per pound. A loaf is thrown into the pen for them to pick at. I feed them table scraps, parings, apples, small potatoes, in fact any old thing that I think will do them good, such as cabbage, beets, etc. I also feed green bone, and keep before them all the time a dry mash made up of 200 pounds bran, 100 pounds middlings, 100 pounds corn meal. This is fed in hoppers where the birds have free access to it. Make your birds work for all the grain fed. They need the exercise and it will keep them out of mischief such as feather pulling, egg eating, etc.

Remember to give a variety. Variety is what counts. It is the keynote to success in winter egg production. Don't be afraid of feeding too much. More flocks are underfed than overfed. I am a believer in the "full and plenty" method. Hens properly cared for, kept busy and fed a variety of good wholesome feed cannot help but lay even if it is cold weather.

WHY I SELECTED THE HOUDAN TO BREED

Written for The Industrious Hen:

The reason I selected the Houdan to breed is because it is one of the most beautiful fowls in existence as well as the best utility bird.

The Houdan is black and white throughout, including crest and beard. They are non-sitters which is in their favor, as they have more time in which to lay and especially when you have orders booked for eggs. They are natural layers, being very heavily feathered and with very little comb to freeze. Their feathers are plentiful but they fit close to the body which keeps them warm and makes them lay. They being heavily feathered makes them naturally healthy.

Their comb and head are protected by a crest and the wattles by a beard which keeps the head and throat warm and the consequence is that they lay more eggs than birds that have large comb and wattles exposed to the cold and especially to our changeable Southern climate.

The comb is small two horned-like projections which is almost hidden by the crest. Another characteristic is that they have five toes instead of four as most fowls have. The standard weight of the cock is 7 lbs. the hen 6 lbs. the cockerel 6 lbs. and pullets 5 lbs.

They are a better table fowl than the smaller breeds as they have more meat on their bones, still they are not lazy like the Asiatics to take on a lot of extra fat; meat is what you want to eat, not fat.

They are of the laying type as they have long and broad bodies sloping gradually to the tail; they grow fast, and a Houdan chick which is hatched in June will lay before winter.

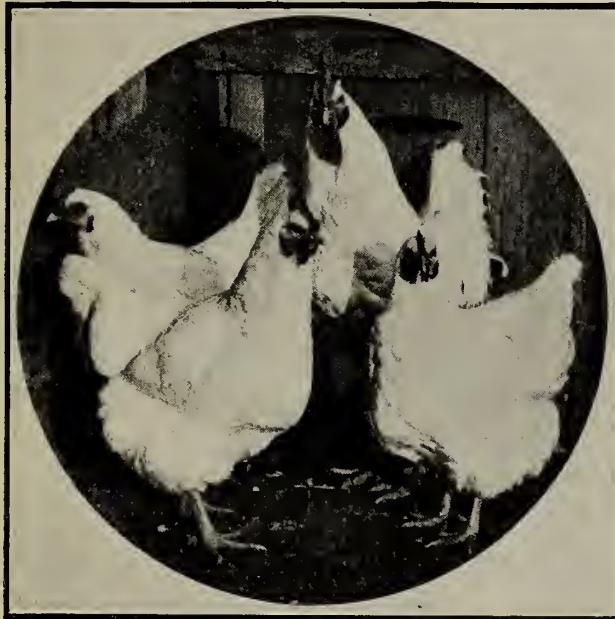
Houdans like fresh air and will not huddle down in a corner to keep warm in the winter as most fowls do, but instead are always working for something to eat in the coldest weather. (If you will give them a place in which to scratch.)

They are tame and become good pets in a short while, therefore they will not run and hide in corners when you bring somebody to see them.

To sum up the total in a few words: They are the best winter-layers because they have very little comb to freeze and are heavily feathered and are therefore protected from the cold by nature. They are the most beautiful of all, with their crests waving back and forth as they run about in their yards, and the chicks are very hardy and grow fast. What more could you want?—JNO. H. SEVIER.

HIGH FARM RECORD

Any farmer can make a good thing out of eggs if he will. The plan is to keep selecting the best layers and kill off or sell all others. Replenish your laying stock by pullets out of eggs from best layers only. In a few years you will have a flock of layers of very superior order. The common farmer can run up a high laying record the same as any specialist if only he will exercise common-sense and try.



Pen of White Rocks owned by Batt & Weaver, Campbellsburg, Ind., showing the fine female type of their strain. Here is a firm that is producing top notchers—birds that have the size and shape and white as a crystal.

failure to produce winter eggs. Chickens are like people; they don't want the same thing every meal. People, as a rule like potatoes, but to get potatoes and nothing else would be slim living. Bread is the staff of life, but if we had to eat bread only we would probably look around for another boarding place. Still we know of some people who feed their hens whole corn all winter, then cuss because they don't lay an egg every day. We don't blame them for going on a strike.

I am not an advocate of feeding much wet mash. A moist mash once or twice a week will help to add to the variety for the hens, and make a change, but I don't think wet mash is the thing for very steady feeding. In the mornings I feed whole oats in the litter of chaff on the floor, making the birds scratch for every grain of it. I usually rake it in with a rake or fork, making it necessary for the birds to scratch or go hungry. I go out after dark and scatter their morning feed in the litter, raking it in. Then they can go right to work when they get off the roost in the morning and don't have to wait around for their breakfast. One morning I feed the oats as stated, then at noon give a feed of wheat in the litter and you ought to see them sail into it. At night I give a feed of whole corn—all they will want. This too is scattered in the litter. The feed for the next morning I try to change a little; probably feed them



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THE INDUSTRIOUS HEN is issued promptly on the first of each month. It furnishes the latest and most authoritative information obtainable on all matters relating to the Poultry industry, Live Stock breeding and intensive farming. Contributions that are practical and pithy are solicited.

The Editor is not responsible and does not always endorse the opinions as expressed by his contributors.

Subscribers desiring a change in address will please give the old as well as the new postoffice.

ADVERTISING RATES

Furnished on application. The value of THE INDUSTRIOUS HEN as an advertising medium is unquestioned. The character of the advertisements now in its columns, and the number of them, tell the whole story. Circulation considered, it is the cheapest Poultry journal in the United States to advertise in. Advertisements, to insure insertion in the issue of any month, should reach this office

Not later than the 25th of the month preceding.

BREEDERS' CARDS—2 1-2 cents a word each month for one, two or three months; 2 cents a word each month for four or more months. A 25 word card will be run six months for \$2.50, one year for \$4.50. A small cut illustrating a breeder of 25 words or more will be used for 50 cents additional. Numbers and initials count as words. Please count the words correctly and avoid delay. We keep no books with this department and cash must invariably accompany the order.

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Your Address on the wrapper indicates when your subscription expires. In order not to miss a number it should be renewed one month in advance. If, after your name appears the date "June 8," it means that your subscription is paid to June, 1908, and unless renewed will be discontinued after that date.

If a large letter "X" is stamped in the panel at the left of this paragraph, it means that the time for which you paid your subscription has expired and, unless renewed before the next issue, will be discontinued; therefore, if you do not want to miss THE INDUSTRIOUS HEN, YOU SHOULD RENEW AT ONCE. Do not fail to send us either 50 cents to pay for your subscription for another year, or \$1.00 to pay for the paper for the next three years. Better send \$1.00 and have the best and most helpful and practical poultry journal found in the world coming to you regularly every month for the next three years.

SAMPLE COPIES

If you receive a sample copy of THE INDUSTRIOUS HEN you are invited to subscribe for it. You may never get another copy, and if you like it, mail us 50c for one year, or \$1 and have it come to you for three years. Thousands are doing this now and you will never regret it. In sending your subscription if you have a friend who would like to see a sample copy, send us their name and address, but send your own subscription RIGHT NOW. Do not put it off because you are busy, but DO IT NOW. Address THE INDUSTRIOUS HEN Co., Knoxville, Tenn.

This issue of THE INDUSTRIOUS HEN, the first of the new year, goes to our readers full and running over with good things. It is fairly indicative of what it is to be during the year.

For the New Year Some of the best writers on subjects of most vital interest to poultrymen have been engaged as contributors, among them J. C. Clipp, T. C. Karns, Michael K. Boyer, G. C. Watkins, Plummer McCullough, S. T. Campbell, Mrs. J. C. Shofner, E. E. Pryor, and a number of others who begin with this issue.

THE INDUSTRIOUS HEN is known by its constituency as an intensely practical journal. Its teachings are wholly along this line. You get close to its contributors because they write in a vein which is popular and sensible.

The already large circulation has been increased during the last sixty days by several thousand new cash subscribers in THE HEN'S own territory. The advertising patronage has increased commensurate with circulation, for all of which we feel very proud and thankful.

Its advertisers are reliable and trustworthy, and we take pleasure in commanding them. That their investment has been a paying one is attested by the fact that many of them have been regular advertisers for years. It is the policy of THE HEN to do all in its power for the advancement of the interests of its patrons, and to this end we invite our advertisers to acquaint us with facts concerning sales made and prizes won—because we only publish the winnings of our advertisers.

To one and all we wish a very prosperous and a happy New Year.

* * *

From the Canadian *Poultry Review* we have a report of experiment in feeding with grain and with dry mash at cottage

Comparative
Cost and Gain
In Feeding Dry
Grain as Dry
Mash

Poultry Farm, Theale Berks, England. White Wyandottes were used; the feed was placed in hoppers so the fowls could help themselves in one dry mash consisting of 20 lbs. bran, 10 lbs. toppings, 10 lbs. corn meal, 1 lb. linseed meal, 1½ lb. clover meal,

in the other meat scraps. The grain and some soft food was given at stated times and any left was removed after 3-4 of an hour.

The dry mash experiment was made in 1907. The dry grain, some soft food, was made in 1905.

	1905	1907
Dry grain	(Some moist food)	Dry mash
Weight of food consumed to each pound of grain	4.16 lb.	2.78 lb.
Average cost of food per bbl	13.60	17.34 cents
Cost of increased weight per pound gained.	6.90	6.40 cents
Average gain in weight. 1 lb. 15.5 oz.	2 lbs. 11.35 oz.	
Average weights (13 weeks) 2 lbs. 1 oz.	2 lbs. 12.68 oz.	
Average total cost per bird	17.26 cents	21 cents.

These figures include cost of eggs and hatching. The experiments ended the 30th of July. From these figures it will be seen that the increased cost of food, due to its being of a more expensive nature, by reason of the large amount of meat consumed, is more than compensated for by the greater growth, at a lower cost for every pound increase of weight, hence it is apparent that the hopper system of feeding and the use of dry mash are worth the attention of poultry breeders and deserve a fair trial. Whether the food supplied could not be cheapened remains to be tested. The report does not state whether the birds used in this experiment were yarded or on free range; from the fact that clover meal was fed we are led to believe they were yarded. We believe that if the amount of corn meal had been larger and oats substituted for linseed meal the grain would have been greater. Still the experiments will give us valuable

data for experiments in this country. We need all the reliable pointers we can get which will go to help the great mass of market poultry raisers, and it is the aim of this paper to furnish all the information that can be gotten in this line, for the benefit of its many readers among the farmers.—T. L. B.

* * *

This is the question that every beginner should put to himself in all seriousness. It is no holiday job to take up the business of poultry keeping. There seems to be a popular idea that just anybody can "raise chickens" or put hens to work laying eggs. What a mistake! It is one of the most difficult arts when pursued as a specialty! The poultryman like the poet is born, not made. To succeed with poultry one must have the poultry gift. He must have a love for fowls and be in sympathy with their life and ways. He must feel a pride in his birds and be companionable with them. He must be able to look deep down into their nature and discern the mainspring of all their actions—must see what makes for health and what for disease. The successful poultryman must be a business man. He must see where results are to come out. He must know markets and the best way to reach them with his wares. He must be brisk and energetic and love work and withal he must be openhearted and honest. The trickster and deceiver finds no abiding place in poultry ranks. Finally he must have patience and bide his time for results. His work should be for life.

MORE PROTECTION FOR POULTRY RAISERS

It is common knowledge that insurance companies for some years have fought shy of accepting insurance on incubators and brooders. This fact has hit reputable manu-

facturers, as well as the makers of flimsy machines that have been made only to sell regardless of their hatching qualities or construction. Fortunately for poultry raisers there have been few such manufacturers as the latter, and they generally come and go within a single season. The reputable manufacturers who are with us year after year will not be sorry to know that a safeguard has been placed around their business by the insurance companies, and that cheap, fire-trap incubators and brooders will no longer be salable to common-sense poultry raisers. The two score or more of reputable manufacturers that we could name off-hand and who are with us year after year may have to put up with some inconvenience in changing their styles in order to meet the new rules and requirements of the insurance companies, but in the end it will be a blessing to them as well as to poultry keepers themselves. We are induced to make these few remarks by a new book of rules and regulations that has been placed in our hands entitled: "*Rules and Requirements of the National Board of Fire Underwriters for the Construction and Installation of Incubators and Brooders as Recommended by its Committee of Consulting Engineers.*" This little book, so far as we have been able to learn, represents the first step taken in the poultry field by insurance companies in protecting themselves and their clients against loss by fire.

The breeding stock should not be kept in the same yard or pen with the young stock. If the young stock is given free range (as it should be), then the old birds should be confined. In this, many breeders make a mistake; they allow the young and old birds to run together, much to the disadvantage of the younger and weaker ones. I have found that

the best results can be obtained by mating a male bird to six or eight hens, and not over ten hens at the most. This applies to birds in confinement. If they have free range, fifteen females are not too many for one vigorous male.—*Successful Poultry Journal.*

Poultry Secrets Disclosed!



Poultry Secrets Every successful poultryman knows important facts he never tells. They are peculiar secret methods and records of discoveries he has made in his work with chickens. Some of these he does not regard of sufficient importance to tell, and others he guards with extreme care. They are the foundation of his success and a valuable asset of his business.

We Will Tell You These Secrets

Every secret printed in this book has been obtained in an honorable way, either by permission of the owner or through the experience of Mr. Boyer, our Poultry Editor, who writes the book, and who is one of the ablest Poultry men of the country.

I. K. Felch's Mating Secret

One of the best-known figures in the poultry world is I. K. Felch. Certainly success has crowned his efforts as a breeder of blooded stock. Many years ago Mr. Felch published his breeding chart, but later, realizing its value, he withdrew it and kept the information for himself. He has now given us permission to use this information, and it is included in this book.

Secret of Fertile Eggs

Is this cock properly held? "Poultry Secrets" tells you how to carry fowls, and scores of secrets far more important and hitherto unrevealed.

Boyer's secret of securing fertile eggs by alternating males we believe is worth \$100 to any big producer of setting eggs. It is something new, and the diagrammatic illustration furnished by Mr. Boyer makes the matter so plain that the novice can easily understand it.

The Secret of Feed at 15 Cents a Bushel

An enterprising poultryman has been advertising this secret for \$5.00 and pledging those who buy it not to disclose it to anyone else; it has, however, long been known to a few poultrymen, Mr. Boyer among them, and the method has been fully explained in "Poultry Secrets."

We Will Pay \$10.00 For Any Secret Not in the Book

provided it is practical and valuable.

See conditions of this offer on last page of "Poultry Secrets" when you get it.

Poultry Department of Farm Journal

FARM JOURNAL for thirty years has conducted a poultry department known the country over for the ability of its editors and the value of its contents.

FARM JOURNAL of Philadelphia is the leading farm paper of the country. It is clean, boiled down, cream, not skim milk. It treats topics in season, is written by practical men and women, who know when they have said enough and quit. Its poultry department is strong and ably conducted, and its garden, orchard, household, stock, dairy and other departments are invaluable equally to the expert and beginner.

OUR OFFER: We will send a copy of "Poultry Secrets" and FARM JOURNAL for 5 years, both for only \$1.00

And to every one who takes advantage of this advertisement before February 1st, we will send also a copy of the Lincoln Farm Almanac, filled with Lincoln stories and helpful matter, for 1909.

WILMER ATKINSON CO.,

1268 Race Street
PHILADELPHIA, PA.

WHAT CAN WOMEN DO?

They can do a lot. They can make happy homes and they may run a few side lines in business at the same time.

Did you ever hear Mr. Richards of the Southern Railway, tell about the woman who is making a fortune on "Pinmoney Pickles" at Richmond, Virginia? They were just what the name indicates—gotten up to earn some pin money. But they were good and people bought them.

Soon folks began to ask one another—"Have you eaten 'Pinmoney Pickles,' made by the Richmond lady?" In a short time their fame spread to other towns and orders followed. Somebody away up in Portland, Maine, heard of them and wrote to inquire about them. Yes, there was just such a pickle, and the order was filled.

These pickles were soon selling all over the country. One day Mr. Richards found them in Toronto, Canada!

That's what a woman can do. Her name is Mrs. Kidd. She now has a large factory in Richmond and is making big money. Pretty good for a side line, isn't it?



FARMERS GRADE UP YOUR FOWLS

THREE is a tremendous business from Tennessee in live poultry, but it is a sad sight to see what stunted, scrawny scrubs most of the fowls are. As an experiment the writer weighed about 1,000, from three to four months old; most were scrubs, but there were some grade specimens and a few thoroughbreds; the difference in weight between the scrubs, the grade birds and the thoroughbreds was from a quarter of a pound to a pound and a half. The price at that time was 20 cents a pound. Just think of it! By not having their fowls graded up the farmers lost on an average on each bird 15 cents, which in a season means several hundred thousand dollars of loss. Our farmers grade up their cattle, horses, hogs, sheep, even the dogs; why in the name of common sense don't they pursue the same methods with their poultry? It is a pure matter of business and common sense.

As a matter of good business, Armour & Co distributed a large number of pure Wyandotte males among the farmers who furnished broilers for this packing plant. The farmers made more money out of the get of these males while the packers had a higher grade of dressed fowls to sell at better prices. Some of the larger dealers in Tennessee are agitating this question and trying to induce some of their customers to use Plymouth Rock males to improve their scrubs with.

The largest part of the poultry business in Tennessee, Kentucky and most of the Southern States, is in live fowls; out of a train a week, of 18 cars, from Morristown, Tenn., ten cars are of live fowls, three of dressed and five of eggs.

Now, farmers, use your common sense; it costs less to feed good stock, and just think of the money you lose each year by not having a better grade of poultry. Get a thoroughbred male now. Later you can improve the females; it spells easy money for you.

KNOXVILLE'S SHOW

Was fully up to the standard. It was held in Market Hall, one of the best places in the South, well cooped, ably managed and properly financed. As usual a fine string of birds was presented, and some as good as have been shown in the South this season. So far as learned the birds were received, cared for and returned in good order. There was no special feature out of the ordinary worth mentioning, except the large and superb collection of the feathered tribe from the Valley View Poultry Farm, of George W. Callahan's. Col. H. C. Austin, the veteran East Tennessee poultryman, has charge of the birds on this farm and is responsible for their elegant condition and inadvertently for the many blue ribbons. Over 150 birds were shown by Mr. Callahan including a dozen or more breeds, besides ducks, geese, pheasants, etc. This beautiful collection added very materially to Knoxville's show, and all Knoxyvillians were proud of them. Full list of awards as furnished by Supt. Jenkins elsewhere.

GREATER NASHVILLE SHOW

Succeeded in drawing together almost 1000 birds, some most excellent specimens and some very enthusiastic breeders. Secretaries Hill and Rion and Supt. Parrish were on the alert at all times, attending to the wants of exhibitors and visitors. Nashville has become famous as a show center. In addition to grand classes of poultry there were splendid exhibits of pigeons, turkeys, ducks, geese, bantams, rabbits, dogs, etc. The classes leading were Wyandottes, Orpingtons, Reds and Rocks. Judges Ewald, Falkner, and that popular judge of Southern shows, Charles McClave, placed the ribbons to the general satisfaction of all concerned.

Fount H. Rion had a large and beautiful string of White Wyandottes that captured most of the blue ribbons and were the admiration of all visitors.

Dr. George W. Martin, State Biologist, Vanderbilt University, showed some beautiful Columbian Wyandottes, winning first cockerel and first pullet.

Benj. D. Hill on his S. C. White Leghorns won a nice variety of colors.

J. C. Vaughan on S. C. Black Minorcas, while he split his exhibit between Knoxville and Nashville, won first cock, first cockerel, first, second, third, and fourth pullet and first pen.

A large class of Buff Orpingtons were here. Miss Nellie Cheaney and Mrs. S. C. Bridgewater were friendly contestants and each were successful in meriting many ribbons.

In the Black Orpingtons Miss Alice Pelton showed some beauties, taking all the ribbons and cups—everything in sight.

The Red class was pretty hotly contested. Many of the birds having already proven their worth at previous shows

were scored different this time. Of course season, condition and judges are responsible for this. Among those who were successful were H. B. Lansden & Son, J. S. Ward & Son, James M. Frank, Frank G. Davis and E. M. Allen.

A complete list of the awards are elsewhere in this issue.

W. S. Shelton & Son had a choice line of B. P. Rocks that were much admired and sported the blue gracefully. They also won a beautiful \$100 silver cup offered by the poultry association on greatest percentage on complete exhibit of one variety.

THE CHARLESTON SHOW

Held Dec. 8th to 12th, 1908, was conducted along the same successful lines as all their previous shows. It was held in the German Artillery Hall and no better hall for the purpose exists in the South so far as I have seen. It was comfortably filled with birds and the quality was fine throughout.

Barred, White, and Buff Rocks, White Wyandottes, and White Leghorns were all large classes with quality to burn and most other classes were well filled with birds of quality. No better or more clever lot of fanciers ever lived than those at Charleston and one trip there will make any one want to go again. Secy. P. A. Robertson assisted by the fanciers of Charleston pulled off the show in good style and the birds were well cared for. No body expects anything else at Charleston, however, for they always do things right.

In Barred Rocks B. Frank Kelley, of Bishopville, S. C., won the lion's share of prizes. He showed a magnificent lot of birds and they represent about as good as you see in this variety. It will be remembered that he did the same thing at Augusta, Ga., in Nov. W. E. Wall, Vaucluse, S. C., is another breeder who is always in the winning on Barred Rocks showing at both Charleston and Augusta and winning out in strong competition. In White Rocks P. E. Trouche, of Charleston, showed a fine string of birds. His first cockerel was a great bird of the correct type and white all the way through. His entire string was good enough to show in any company, but were not in the best of feather at the time.

E. A. Marvin and R. D. Robinson, both of White Hall, S. C., were at the show. Mr. Marvin breeds R. I. Reds and White Rocks, and Mr. Robinson handles Barred and White Rocks. Look up their ad. in this issue of THE HEN. I was glad to find Mr. DeSaussure at the show. He is president of the DesRena Poultry Yards, Greenville, S. C. They breed winning Barred Rocks and White Wyandottes and will treat you right. Look up their ad. In Buff Rocks competition was keen as usual. W. A. Herman, of Augusta, Ga., was in the winning as he always is. His first hen was a peach and his entire string shows signs of careful breeding. C. T. Fallin, Greenville, S. C., showed quality as usual and his youngsters will be hard to beat in later shows.

G. F. and B. K. McInnes, Charleston, S. C., have been breeders of Buff Rocks for many years, and they have the quality to show for it. They were winners all the way through, and did not show their string of real exhibition birds as they are conditioning them for later shows. Watch their ad. in future issues of THE HEN. They are as honest as a breeder can be and you can trust them with your orders.

When it comes to White Leghorns H. Wilber, of Charleston, does not take a back seat for any of them as will be seen by his winnings at this show as well as Augusta and others. Write him when in need of any thing in his line.

Taken altogether the Charleston show was a grand success, although the attendance was very poor. The people of Charleston evidently do not realize the value of poultry or a poultry show in their town, but the day is coming when they will realize what it means to them and they will get busy. The fanciers are all right, but the business men generally seem to think they can get along as well without them, which is a great mistake.

Most of the Charleston fanciers say they want comparison judging after this and if they adopt this method it will be a step in the right direction and better satisfaction among the exhibitors will be the rule.—C. W. FOWLER.

The average weight of the Indian Runner duck is four pounds. They do best on a large free range, not standing confinement so well as other varieties. The duck is full grown and ready for market at 7 or 8 weeks of age. Indian Runners are wonderful egg producers, great foragers, hardy, and delicious eating.

IS THE POULTRY BUSINESS A PAYING ONE?

PERTINENT QUESTIONS ANSWERED BY EDITOR BAYNE

Editor Industrious Hen:

I am housing 20 S. C. B. Leghorns in a house 12 x 6 1-2 x 6 with two windows 2 x 2 in the south. Walls double boarded with tarred paper between. No ventilator. Combs froze last winter.

I wish you would kindly inform me in the next No. of the HEN how I could alter house so that combs will not freeze.—M. A., Iowa.

Your house is too tight. In Maine they use open front houses with success, also in Canada. When loosed at night in cold weather, the moisture from the fowls clings to the wall and produces damp heat; this causes the birds to catch cold and will also make it easier for combs to freeze. If you have a gable roof to the house, fill the upper part with straw and cut a small opening in each end of the gable, cover these with canvas. Your windows are too small and tight. Make your windows each two feet wide by four feet high, have upper half 2 x 2 of cloth, lower half of glass, fix the glass so the window can be opened on fair days, but close at night.—Ed.

Will you please give us an article in THE HEN on causes of infertile eggs, the mode of testing their fertility, and if it can be done before they are set? The effect of inbreeding on the fertility.

Would the use of carbolic acid and kerosene oil render the male or the female useless? Can there be too many males in a flock? I would be very glad of an article on this subject, as I had very bad hatches last year. Yours truly, Mrs. J. W. M.—Va.

The causes of infertile eggs are many and we will probably write on the subject in the course of the year. In the main, it may be poor breeding stock, poor management, lack of vitality, improper handling and poor care of eggs; improper incubation. You had poor hatches, that does not necessarily mean that the eggs which did not hatch were infertile. There is no way of testing the fertility of fresh eggs except by breaking them. You can test for fertility on the seventh day of incubation by using a tester with a lamp—you can get one for 25c. Write to any of the poultry supply houses or incubator companies advertising in THE HEN and you can get one from them. Too close inbreeding has a bad effect on the fertility of eggs, and the chicks that hatch in such cases are generally poor specimen. The proper use of carbolic acid or kerosene will not hurt fowls; if used too strong will cause trouble. Too many males in the flock is a bad arrangement for breeding; better have one male to each flock; if on free range 15 American females to one male; 20 Mediterraneans. If confined in yards or runs use 10 to 12 females to one male of American breeds, 12 to 15 females of the Mediterranean breeds to one male.—Ed.

May I trouble you to give me your best off-hand information whether there are large poultry plants in the south, such, for instance, as they have at Petaluma, California, and whether they are supposed to be profitable?

Also, is the fall of the year a suitable time to start new in the business? Would there be any difficulty in getting a good supply of White Leghorns in the south?

Would you recommend starting with the eggs and incubators, or with hens or part grown pullets?

I am asking these questions preliminary to the main question, whether you can confidently recommend to a brother newspaper man advertising in your columns for the supply of such wants at this season. That is rather an unfair test, perhaps, to ask a man to advise possibly against the interest of his own pocket book, but I have no hesitancy about putting you to that test.

I have a place on the Gulf Coast where I am considering putting in a poultry business before long; possibly soon, and should be glad to have your advice. If it starts it will probably be in the hands of an experienced person. Wm. L. E.—Ill.

There are some large poultry plants in the south which I believe are successful. I have heard of one near New Orleans and one near Atlanta; they are not, however, market poultry plants but deal extensively in fine fowls. As I understand it there are no very large plants at Petaluma, Cal., but a very large number of moderate sized plants, making a large aggregate. The fall of the year is a good

time to start. You can probably get White Leghorns in the south in lots of 100 to 200 from a single breeder.

Better start with yearling hens for breeders and full grown pullets for market eggs, if necessary you can buy eggs for hatching at first. You will undoubtedly have to use incubators and brooders if you keep Leghorns; they are practically non-setters. Yes we can recommend our advertisers for the filling of your wants, a large number of them are personally known to us and the others by reputation. We fight shy of any undesirable advertisements.

In starting you had better, if possible, learn something about the business; visit some plants in your locality and talk to the parties operating them. For a success the main points are a good market, some capital, common business sense and the hardest kind of work. The services of an experienced person is most vital, but you must, as soon as possible, put yourself in a position of knowledge, so you can intelligently supervise the management, otherwise you will be entirely on the mercy of your manager; the business part must be in your own hands. In poultry management you will have to go to school to your manager.

If New Orleans is your prospective market, I can give you some information about it as I have recently investigated its possibilities and I do some business there myself.—Ed.

I have been losing some chickens and still have some afflicted from the effects of eating pumpkin seed. My neighbors say it is pumpkin seed killing them. They have free access to the pumpkins and eat heartily of them. It is only this year's chickens that are afflicted. They first seem to lose the use of their legs, then sometimes they act like their back was broken; then they will take a spell of fluttering around and fall backwards and tumble around ever which way. Can you tell me what ails them? They sometimes live a month after they get this way; their combs stay bright and red and they are as hearty as usual. I have been bothered with this disease before and it comes in the fall of the year. M. E. B.—Tenn.

We have fed lots of pumpkins to our chickens, without bad results. We have heard of pumpkin seed effecting the kidneys but never of their effecting fowls. We believe your fowls have been poisoned. We lost three in the same way, though much quicker. Suppose you put up a couple of pens, give one all the pumpkins and seed they will eat, give the others no pumpkin. That will probably show if the trouble is caused by the pumpkin seed.

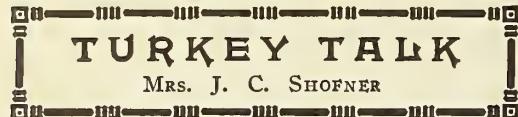
If any of our readers can give us any light on the above trouble, we shall be glad to hear from them.—Ed.

Will you please state how old pullets must be before their eggs are reliable and strong for hatching.—H. H. Berry, Tenn.

Eight months old for Mediterranean, ten months old for American breeds. Better mate them to a cock bird.—Ed.

Please give me some information in regard to the White Orpington breed, as a layer, as a setter and as a table fowl. How do they compare with the White Wyandottes and Barred Rocks? I mean in size as well as other qualities. From what I know of the breed, they must be very much like the White Wyandottes. Please tell me if this is true of them. Any additional information you can give me on this subject will be very highly appreciated.—E. B. H.—Va.

It is claimed by breeders of the White Orpingtons that they are excellent layers, especially in winter. As table fowls they are probably better than Plymouth Rocks and Wyandottes. On account of their Dorking blood, they have longer keels and more breast meat. As broilers the White Wyandotte is better. Through the success of Kellarstrass with this breed and his sale of five for \$7,500 to Madame Paderewski, the wife of the pianist, a great deal of attention has been attracted to White Orpingtons. They are a fine fowl, the only drawback to their beauty being the color of their legs. To the ordinary observer there is very little difference in the shape of Rocks, Wyandottes, Reds and Orpingtons. Orpingtons are the largest; weights are, Cock, 10, Hen 8, Cockerel 8, Pullet 7; for Plymouth Rocks, Cock 9 1-2, Hens 7 1-2, Cockerel 8, Pullet 6 1-2; for Wyandottes, Cock 8 1-2, Hen 6 1-2, Cockerel 7 1-2, Pullet 5 1-2. If you admire the White Orpingtons, you will probably succeed with them when you try them.—Ed.



Selecting Turkeys for Breeders Written for the Industrious Hen:

THIS is something that demands thought and experience, when mated for best results. In mating a pen, one should get the whole pen as near perfection as is possible in color and as much size as we can possibly get, since like begets like, but in case we have our females and want a male to mate with them and they are deficient in some special point, say penciling, not enough bronze in different sections, tippings not pure white or wing too dark, etc., one should be sure to select a tom that is strong on those special defects to overcome the defect in the offspring; or vice-versa, as the case may be. A breeder who has been in the business a number of years and established a national trade, should keep more than one pen of turkeys and infuse new blood yearly in each pen so as to furnish his customers new blood in the same line he begun in. In this way, if the breeder keeps a correct record, new blood can be introduced scientifically with best results and not weaken the line of breeding, or run any risk of spoiling one year's work by ill mating. I keep a record of all the breeders that have been bought from me for ten years back and can refer to that and see what line of bird any of my customers began on, and the date the bird was shipped, what line new blood was infused from, etc., so that I can furnish new blood to any customer all the way along. I have had breeders to say in an inquiry, that they meant to buy hens from one breeder and a tom from another, to avoid relationships. If a breeder has bred scientifically and marked each pen, and recorded the mark, there is no need of going elsewhere, as the breeder really should know what is needed in the customer's flock, and can furnish it if they have carefully infused new blood themselves.

—MRS. J. C. SHOFNER.

Armour Should Pay

Armour of Chicago sent out quotations of 19c. for Thanksgiving turkeys and as the market was only 17c. he was flooded with stock, says the *Cincinnati Produce News*. It came so fast and furious that there was not help enough to promptly inspect the arrivals and as a consequence a large portion of it spoiled on track. The Armours are so rich that shippers were justified in expecting their stock would be paid for at the price quoted. The bulk of the shipments were refused at the quoted price and sold for the account of the shippers. The price offered some of the shippers made them turn much greener than were the turkeys which were held on track three to four days and then condemned.

A telegram from Chicago to the *News* says: It is learned from a railroad man who is well posted that Armour got more than 100 cars of poultry for the Thanksgiving trade. This terrible rush blocked the entire plant and the stock could not be reached for days after its arrival.

There was no excuse, says the *News*,

except a low market and incompetent help, for Armour rejecting turkeys as he did, and every shipper who gets returns for less than the price bid, should sue Armour for his full invoice. The principal is responsible for the acts of his agents and the 19 cents offered for these turkeys was genuine. The removal of the man who made the offer is of no consequence to the shippers. They are entitled to the full amount offered and should have every penny of it.

Well Loaded Turkeys.

In the craw of a turkey served for dinner for the family of Nelson J. Campbell, custodian of the state capital, at Denver, Colo., were found the following valuables: Four gold nuggets, assaying \$65,000 a ton; three silver nuggets, assaying \$4,000 to the ton; one amethyst, value not known; twelve moonstones, value not known; one trousers button, three shoelace tips, three halves of marbles, particles of twine, and the point of a knife blade.

Campbell was offered \$50 cash for the output of the turkey's gizzard, but refused it. The bird was bought from a commission company for \$1.20. It was shipped to Denver from El Paso, Texas. The commission firm that handled the turkey shipment from El Paso through its shipper has secured a lease on the mineral lands on which the turkey grazed.—Ogden, Utah, Standard.

M. B. TURKEYS

Better than ever before. A limited number for sale from select stock. One first and three seconds at the recent Knoxville show. Sired by Tom that weighed 43 lbs. in August. Prices surprising considering quality.

R. C. B. Minorcas and B. P. Rocks

Write your wants.

MRS. R. B. BEELER

POWDER SPRINGS, TENNESSEE

Snow White Rocks, M. B. Turkeys and Pekin Ducks, at State Fair 1907-8 won 5 1sts and 4 2ds on White Rocks, and 2nd on M. B. Turkeys. My stock is in the finest condition and the best of health. I have many pleased customers and can please others. Try me. Hen Eggs \$1.50 per 15, Turkey Eggs \$2.00 per 10, Duck Eggs \$1.50 per 13.

Mrs. T. E. Batchelor, Avery P. O. (Via Varner) Ark.

WE BUY THOROUGHBRED POULTRY

Write and Make Us an Offer

J. STECKLER SEED CO., Ltd.

512-516 Gravier St., NEW ORLEANS, LA.

The largest seed house in the South—vegetable, flower, field and grass; fruit trees, roses, everything. Breeders of Fancy Poultry, Swine, Pigeons, Rabbits.

EGGS FOR SALE

From S. C. B. Rocks & S. C. B. Leghorns

I have also stock to sell of M. B. Turkeys, Pekin Ducks, Rankin strain, and Brown Leghorns. The turkeys are large, well marked, bred from my 49 1-2 pound tom, are strong and hearty. Have a large range. CEO. E. PATTON, Morganton, N.C.

FOR SALE!

Mammoth Bronze Turkeys and eggs in season. Our hens are mated with Jumbo, winner of first prize at East Tennessee Poultry Show, Knoxville.

J. N. PETRE, Washburn, Tenn.

MAMMOTH BRONZE TURKEYS

A choice lot of young M. B. Turkeys from my Kentucky State Fair winners for sale. Write for prices.

MRS. R. A. OWEN, Simpsonville, Shelby County, Kentucky.
Box No. 37. Cumb. Phone 38

EGGS ROSE COMB R. I. RED EGGS

At Empire Poultry Association Show, 1908, (largest show on Long Island). I won 1st cock, 1st pullet, 2nd pullet, 5th cockerel, 1st pen, color and shape specials on five entries. Eggs from this stock \$3.00 per 15.

A. E. PICKARD, ROSLYN, N. Y.

White Holland Turkeys EGGS and STOCK in SEASON

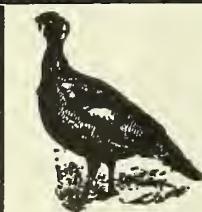
A. S. BELL,

ROUTE 13. KNOXVILLE, TENN.

MAMMOTH BRONZE TURKEYS Eggs & Stock in Season

Write For Prices

MRS. W. R. BRAKEBILL, R. 3, KNOXVILLE, TENN.



FOR SALE! Mammoth Bronze Turkey Eggs

What every one wants is size and plumage combined. I have it in my flock this 1908 season, with "Southern Prince," line bred, weight 50 pounds, score 97 1-2, his sire, Goliath, weight 48 pounds, score 97 2-2, with Jumbo Jim, grand sire, by hen, weight 47 pounds, second prize winner at St. Louis World's Fair, 1904. Southern Prince heads Pen 1, mated to 8 fine, large females that will score at least 95 points. Pen No. 2 consists of 8 fine pullets mated to a 35 pound ckrl, score 96 1-2, 1st prize winner at Lebanon, Tenn. "Like will produce like," and this is what my customers will get in these eggs. Satisfaction guaranteed as represented. Correspondence solicited. B. P. R. chicken eggs from best prize winning strain, \$1.50 per 15.

BOONEVILLE POULTRY YARDS, MRS. J. C. SHOFNER, R. I., Mulberry, Tenn.

PIGEONS AND BANTAMS
E. E. PRYOR

The PigeonWritten for the *Industrious Hen*:


The nests should be built or placed against the east, north and west walls. If the house is a long one and divided into two apartments, as suggested in the December *HEN*, there should be a door in the house in each partition separating such apartments, so that a person may pass from each apartment to the other. In such arrangement the door space could not be used for nesting places. If it is desired to build nests, get boards 12 inches wide, 1 inch thick. Saw them the right length to fit, edgeways, against the wall where the particular board is to stand, perpendicularly. Nail cleats horizontally across each board, parallel to each other and 10 inches apart. Cleats should be 12 inches long and 1 inch square. The upright 12 inch boards should be 12 inches apart. Nail the upright boards securely to the wall and floor, allowing such boards to extend from the floor to the roof and with horizontal cleats standing 12 inches apart. You are ready now to place the nest boards. Get seasoned boards 12 inches wide and 1 inch thick. Saw them 12 inches long so they will slip in and lay easily on a cleat under each end. These form the nest bottoms. Do this until all cleats have boards and you will have pigeon homes 12 inches square and 10 inches high. These sliding boards may be easily taken out for cleaning. The lowest board should be 12 or 15 inches off the floor. Pigeons should not be encouraged to build on the floor and for this reason it will tend to discourage such low building of nests.

On this sliding nest bottom board, nest pans, bowls or nappies may be placed. If so, they should be screwed fast and when cleaning pull the board, and all that is on it, entirely out and clean, then disinfect and replace. If nest pans, bowls or nappies are not desired get a strip of lumber 2 inches wide 1-2 inch thick and as long as you wish to use, nail it on one inch above the sliding bottom and you have it complete. Others may prefer the nest pans but I prefer the strip even at the same price, but the nest pans are much more expensive.

Another method of nest building is to procure orange boxes of your grocer and nail a 2 inch wide, 1-2 inch thick strip, 1-2 or 1 inch from the bottom across the open side, then lay the orange boxes on top of each other as high as you desire, level them, and you will have two nests about the right dimensions. These boxes will cost but little and you will have about as good and much the cheapest lot of nests you can obtain. The little opening between the two inch strip and the board edge below will permit cleaning. The nest is usually packed so well by the pigeons in setting and raising the young that it may be lifted out and with a scraper the remaining particles can be put through this 1 inch opening. The floor swept after all nests are cleaned. A little air slacked lime sprinkled in where the old

nest was and it is ready for another pair.

There should be no perches or roosting places in the house. The birds will roost, usually one in each nesting place. Thus they will not soil each other's feathers, keep the floor cleaner, and the attendant will not have to crack his head on useless projections and create suspicion among the birds that he is crazy or drinking, either one of which always excites a pigeon. Avoid also a running board in front of the nests for pigeons to alight and walk on. It gives a fighting cock or one unmated too good a chance to torment busy parents, but with only the nesting boxes the one inside having such an advantage is little bothered while hatching or raising young. A few squab bulletins left will be sent for 2 cents postage.

There can be kept in such a house and its fly as many birds as there are nests, but it is better to have a few extra nests. For instance, if there are fifty nests in the house fifty birds may be allowed, but better to have fifty-five nests for the fifty birds. Some have wanted to know how many pigeons they can keep in a house of a certain size, and a good answer is not to gauge the number of birds by the size of the house, but by the number of nests, for that is where the squab raising work is to be done by these that are in the house. One pair should have two nests or a nest for each bird. The two birds use the nest but while a pair of squabs is in one nest growing the parents prepare another nest and begin the work of starting another brother and sister of the growing ones. If they have no place to nest they cannot begin or must build on the floor. The fly will be dealt with in my next.—E. E. PRYOR.

Mated pair
kissing.—
From eggs
to squabs
4 weeks.
FREE Squab
Book,
How to make money breeding Squabs
PLYMOUTH ROCK SQUAB CO., 348 Howard St., Melrose, Mass.



BIG PROFITS IN SQUABS
Do not fail to get our booklet, which contains the secret of successfully breeding squabs, the result of practical breeding. Will be sent FREE upon receipt of ten cts. to cover mailing, etc.

MELROSE SQUAB CO.
924 Harwood Place, Buffalo, N. Y.

SANITARY SELF-FEEDER
(Pat. Applied for.)

We are making the best sanitary feeder on the market, and we have tried some. No rain, no rats, no waste, no souring, all objections overcome. What you want for pigeons and chix. A few at cost to introduce them. Will save enough feed in one season to more than pay for themselves. Hold four kinds and three to five gallons at one filling.

PRYOR & KESSLING MFG. CO., Martinsville, Ind.

S. C. RHODE ISLAND REDS AND BROWN LEGHORNS

from prize winning strains. Stock and Eggs for sale in season. Cockerels \$2.00; Eggs \$2.00 for 15, \$3.50 for 30, \$6.00 for 100. Satisfaction or your money back.

J. W. BOWERS, Route 1, Engelwood, Tenn.

WHITE PLYMOUTH ROCKS

For the last seven years I have won at Nashville, Knoxville, Atlanta, Birmingham, Montgomery and Huntsville.

GEORGE DARWIN,
HUNTSVILLE, ALA.

ALLISON'S S. C. WHITE LEGHORNS

Have won the blue at Louisville, Frankfort, Kentucky State Fairs, and Jeffersonville. Egg orders booked now. Write your wants.

T. S. ALLISON. 28th and Slevin St., Louisville, Ky.

MINORCAS

Nashville winnings: January, 1907, 1st and 3rd pullet. December, 1907, 1st cockerel, 2nd cock, 1st hen, 3rd pullet; A. P. A. medal on cockerel. State Fair, 1908, 2nd cock, 3rd pullet. Eggs, \$1.50. CHAS. T. MOSS 4205 DELAWARE AVENUE, NASHVILLE, TENNESSEE

DAVIS' BARRED ROCKS

HAVE AN ESTABLISHED REPUTATION AS THE
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Breeders of **BARRED PLYMOUTH ROCKS** Exclusively

YOUNG AND OLD STOCK FOR SALE.

EGGS \$2 AND \$3 PER 15

Winnings at Greater Nashville Poultry & Pet Stock Show: 1-2 ck, 1-2-3-4 ckl, 1-2-3 hen, 1-2-4 pullet, 1 pen, \$100 Association Cup on greatest percentage on complete exhibit of one variety.

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Big Buff Plymouth Rocks

of Quality, Standard Weight

With a clear, even, rich, deep golden color. We can furnish you the finest show specimens, sired by the noted "King George," the most typical Buff Rock the world has ever seen. Our winnings at Louisville, Ky., Jeffersonville, Ind., and many other national shows prove the superior quality of our Buff Rocks.

Choice Breeders \$2.00 and Up.

We have furnished more winners for National shows than any Buff Rock breeder in the Middle West.

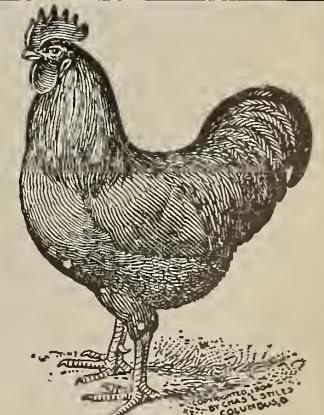
Our "Giant" Strain Bronze Turkeys

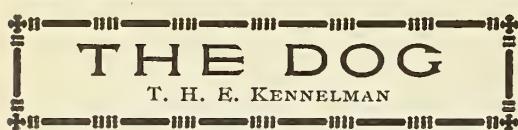
are certainly grand this year, possessing enormous bone and frame, fine in markings. We have furnished winners for a number of leading shows for the past several years.

Our Pearl Guineas are fine in plumage and great layers.

Satisfaction guaranteed.

J. C. CLIPP, Box 700, Saltillo, Ind.





Canines as Police Assists

Written for the Industrious Hen:

Since the Police department of New York City imported dogs to be used as helpers to patrolmen detailed to the outlying districts, and since the reports of what these dogs did in saving human lives by bringing their master to would-be-suicides still warm and by aiding their master to overcome sudden attacks or to subdue criminals about to be arrested, have been broadcasted, interest and anxiety on the behalf of the general public to know more of dogs as helpers to policeman or sheriff, is not only easily explainable but natural.

Police dogs are dogs that by their general make up, power of endurance, ability to stand punishment and hardships, a lion's courage and true fidelity are the natural helpers to the rugged policeman. To guide them along the right ways, they must have more than the usual allotment of gray matter in their cranium, as instances are not a few in their varied career where they themselves must be able to do the right thing at the right time instinctively.

It is true, any good breed of dogs, or even a cur, may be taught to become a dog ultimately of some assistance to his master and far be it for me to say in these columns that there is only one dog that will do this to the total exclusion of all other applicants, for such is not the case. We have seen Airedales, Belgian Sheep dogs, Bull dogs, German Sheep dogs, yes and even Setters do some good stunts in the hands of Police departments, but—and here comes the rub—if all attributes favoring the above comes in consideration and are compared with the results obtained and the length of time it took to obtain them, I have yet to see an instance, where the German Pincher has been outclassed. The fact that the latter are favored by royalty—a son of Emperor William even having one as pet and personal protector—and that they are comparatively new and rare breed, made exclusively for the performance of duties that require brains and courage and as they are a very commanding breed, as far as looks and action go, stamping them as the "dog for Gentlemen" is mostly responsible for the general absence of them as actual helpers. This is a fact that in itself recommends the breed and time will easily remedy it.

Police dogs can be classified into two large and distinct groups, (1) those that are to be detailed to the active policeman. These must excell in home training, be perfectly fearless, yet perfectly harmless until ordered to "seek the lost" or "attack." They must let go of the victim on "let go" and return mute as a sheep to their master's side. Their trailing powers need not extend to more than a warm trail, as



only warm trails are found in the regular often executed beats of their master. On dark nights or in dangerous localities, they must upon "shoot ahead" go forward and patrol the streets fifty feet ahead of their master and hold at bay with barking any person in hiding.

(2) Those that are to be an adjunct to the detective service. These dogs are taken from the brainiest from group one and promoted after they have passed the first two years of their lives as actual helpers to patrolmen. Their most essential requisite is their nose as cold trails, 48 hours old, even if partially washed out by rain, must prove no riddle to them. To teach them to take a cold trail requires patience and kindness. The dog well broken in all rudimentary duties is taken in leash on a rope three yards long. An attendant who has made a trail for 120 feet lies in hiding on its termination. The dog is started and by standing directly over him his nose is forced gently but surely into every footprint made by the attendant. Soft ground is for that reason advisable to trail over for the first ten lessons, that the trainer can see all footprints and be sure the dog is on the right track. If we never allow the dog to know failure in trailing, we gain that much in creating in him confidence in his own powers which will come to good account when things are at stake later on.

By gradually increasing the length of the trail and the time between making trail and going with dog on same, we teach the dog in generally less than 100 lessons to take any trail under all circumstances. It is of value, that the attendant making the trail be found in each and every case hidden on its termination.

In order to vary the scent, woman, children and even other animals should be used after the dog's work on the attendant has proven a success. Detective dogs must also, without being told to, bring to their master any or everything of the same scent as the trail, that might have been thrown away, such as revolvers, keys, pocketbooks, etc., as most criminals will do away with the *corpus delicti*, if they know of being followed or expect conviction through the fact of these things being found on them.

How serene the outlook of poultry breeders would be, if all had a dog that could follow the chicken thief and nail him at home or in the market stall, when he was trying to dispose of the ill-gotten products. That it has been done time and again, is matter of history and that it can and shall be done again in our great land is only a matter of few years of education. Show a man what he needs to protect himself and his property and a fool would he be, who did not partake of the advantages offered to the betterment of his finances as well as to the oblivion of all worries for the future.

In my next paper I will give amongst other occurrences a verbatim newspaper report of what I did with two dogs, bringing to justice a band of desperate car burglars and murderers at Lancaster, N. Y., after Captain Weber and his assistants had a mortal combat with the gang in trying to arrest them for car robberies.—THEO. F. JAGER.

Only One Left

One handsomely marked sable and white male Scotch Collie pup, whelped Sept. 28, 1908. This is a fancy dog, royally bred, and of excellent collie blood. Pedigree furnished, pup delivered free and guaranteed for \$35. The last one of this litter.

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Two new litters sable and white Scotch Collie pups, whelped Jan. 1 and 7, 1909. Well marked, will make fine drivers. Pedigrees furnished. Males, \$10; females, \$8; spayed bitches, \$10.

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The editor of THE DOG FANCIER has a preparation that will positively remove all fleas from dogs and cats. It is harmless to the animal or coat. Sent, postpaid, for fifty cents. THE DOG FANCIER is a monthly illustrated publication, devoted solely to dogs. Now in its 17th year. Will send you a sample copy on request. Subscriptions price fifty cents a year. Address the Editor, Eugene Glass, Battle Creek, Mich.

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Imp. SCOTTISH ALTON MONTY

Son of Imp. Champion Alton Monty, and from a direct line of winners on both sides. Large rich golden sable, full white markings and a sure getter of well marked pups. A perfect Collie type, quick and intelligent.

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SHADRACK

Son of Alstead Bruce, and a fine specimen of the Champion Wishaw Clinker stock. Beautifully marked sable and white Collie, heavy coat, elegant head and ears, and a sure sire of well marked pups.

Young puppies from best bred bitches. Pedigree with every pup and satisfaction guaranteed.

KNOX COLLIE KENNELS
617 Gay St. Knoxville, Tenn.

Boys Poultry Work
R. G. FIELDS

The Nashville Ribbons

The Club ribbons offered at Nashville this season drew quite a large exhibit from among the boys. First best display shown by a member of the Club goes to Joe B. West, who won on an excellent exhibit of White Homers and Swallows. Second place goes to Henry N. Snell, who showed a fine collection of Rhode Island Whites. A. L. Crowe, gets third, showing some classy Muffed Tumblers. The boys in each case won over their older competitors and deserve credit for all their winnings. West, Snell and Crowe each made a good showing at the Tennessee State Fair also.

Just Notes

Carl Alexander, of N. C., reports his winnings on White Cochin Bantams at the Mecklenburg Fair as follows: 2, 3, 4 ck; 1, 2, 3, 5 hen; 1, 2, 4 ckl; 2, 3, 4 pul; best display.

The B. N. P. C. offers a set of Club ribbons at New Berlin, N. Y., show, Jan. 26-29, and these, together with a valuable list of ribbons and a silver cup donated by friends of the Club, make a list of specials worth competing for. You boys who are at a reasonable distance from New Berlin should make it a point to exhibit there and try for these specials.

Henry N. Snell won the pair of Racing Homers offered by Mr. H. L. Schaller, to the member of our Club getting the most new members before Jan. 1st. These birds are beauties, and are a fair sample of the kind of birds which Mr. Schaller breeds. Snell won them after a close race by only one point. He is a hustler all right, and is making a fine S. V. P. I wish we had a few more S. V. P's. like Snell, Crowe and Fort.

All the boys are taking a big interest in Club affairs, but it seems as if those Georgia boys in particular are determined to outdo the rest of the Club. Our Georgia State Vice President, A. L. Crowe, has gone to work with energy, and we may well expect to see his State well up in the member column. In order to get more members from Georgia, he has offered a pair of his finest Muffed Tumblers (and his are of the best) to the Georgia boy who gets the most new members prior to March 10, 1909. In addition he offers a pair of prize winning White Homers to any Club member who gets the most new members before June 1st, 1909. Here is your chance to get a free start in the very best stock, and it is up to you to do it.

Our Catalogue

By the time this issue of THE HEN reaches you, no doubt you will have received a copy of our second annual catalogue. I am sure that all of you will agree with me in saying that it is a handsome piece of work, and well worthy to go forth as an example of what our Club is doing.

This catalogue is valuable to you in many ways, and should receive a place in your library, where you can refer to it with convenience. You might also show it to your friends and get them

to join, thus helping yourself on the way towards one or more of the valuable premiums listed in the catalogue. If you wish help on some knotty problem in your poultry work, a good plan would be to write several members whose names appear in the catalogue for their experience. All the members solicit correspondence, and you can write any of them just for pleasure if you wish. Correspondence is a great educator.

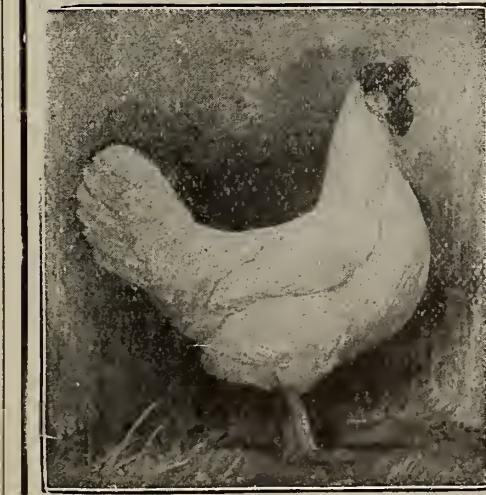
If you desire another copy of the catalogue, it is yours for the asking. To all non-members will say, that we will be pleased to mail you a copy of it, if you will write for same to the Boys' Department Editor, enclosing stamp.

Where the Farmer Wins

The cheapest eggs, like the cheapest butter and cheese, are made by the man with plenty of land. The farmer who will pay due attention to the care of his poultry and to marketing the product need not fear the competition of the village lot and the city backyard. The farmer lays out no money for fancy buildings or fences. His birds forage part of their own living and improve in vigor. They find for themselves what the town poultry keeper has to buy at much expense, only to find his flock surely losing vitality after a year or two in close quarters. Yet some farmers continue to throw away their advantage by treating their pens as if farm land sold at about \$1 a foot. Thus on one farm the seventy-five pure-bred hens brought in over \$300, or just about the same as the seven cows on the farm, yet the farmer grudged the hens the small half-acre they received out of the

Paralysis
Locomotor Ataxia Conquered at last by Chase's Special Blood and Nerve, Kidney and Liver Tablets which force new life and strength into the paralyzed parts. A month's trial will convince you. Write for full particulars.—P. 3.
Dr. Chase, 224 N. 10th St., Philadelphia, Pa.

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Copy of Monthly Magazine, Hunter-Trader-Trapper, 128 or more Pages about Steel Traps, Snares, Deadfalls, Trapping Secrets, Rav Furs, Dogs, Ginseng, Big Game Hunting, etc., 10c Catalog describing magazine and books on Trapping, Prospecting, Bee Hunting, Ginseng Growing, etc., FREE. A. R. Harding Pub. Co., Box 729, Columbus, O.

FOGG'S S. C. WHITE LEGHORNS

sixty. With two acres set with fruit trees the hens and chickens would have done still better and the cows scarcely have known the difference. —*American Cultivator*.

AT STUD Chief Wonder A. K. C. 86883. Fee \$15.00. A cobby built, big boned son of Ch. Woodcote Wonder, most famous bull terrier of his day. A few choice puppies sired by Chief ex Pharmacy Queen; she by Fire Chief.

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Registered and pedigree and farm raised. Stock from the famous Clonmel Monarch breed. Splendid pets, good watch dogs, hunters, trailers, swimmers, retrievers, wild animal fighters. See March "Recreation," also "American Field," July 25th, 1908.

Write, whether you buy or not, to

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FOR SALE—Some fine Indian Game cockerels and pullets. Birds from best imported stock. Eggs in season \$3 and \$5 per fifteen.

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We recommend *The Southern Planter* as one of the best farm publications in the South. Send to them for sample.

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A Book That Satisfies a Want**THE BOOK ON THE POLICE DOG**
(ALL ABOUT HIM)

Any one who owns or needs a dog to protect himself, his family, his property, must have this book. Policemen, Sheriffs and Detectives cannot afford to be without it. Farmers living isolated owe it to themselves to investigate the claims made. Get the proof what dogs have done, what they can do for YOU. 25 cents—stamps or silver—per copy postpaid. Sold on approval, money back if not satisfied. Can YOU afford NOT to have a copy?

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Are making a clean sweep in the hands of CUSTOMERS this season. YOU get MORE QUALITY for the SAME MONEY than from any other strain. A trial will convince you. In Cockerels, Pullets and Hens I can please you in any class of birds you want. All birds are mated to produce best results.

My breeders for the coming egg season are mated NOW. They are the finest lot in this country. I can give you proof if you want it. Write NOW for my mating list and finest S. C. White Leghorn catalog published. Both are free. My guarantee to refund your money and pay return charges on any birds not satisfactory MAKES YOU SAFE.

N. V. FOGG
Box A, Mt. Sterling, Ky.



The Editor's Short-Stops

Moss on apple trees indicates a moss-back owner. He needs to get a move on him and learn to prune, scrape, wash and spray.

Remember that too much woody growth makes a scant bearer in fruit trees. An excess of humus in the soil is not desirable.

Young fruit trees are sometimes helped by a bath of soapsuds applied by the good farm wife from her weekly wash tubs. The soap is not healthy for peach trees.

The Bordeaux has been the fruit growers' principal fungicide but sometimes used at the expense of foliage. The next best has been the lime-sulphur mixture. Its special value has been in combating San Jose Scale.

"East Tennessee Fruits and How to Grow Them" ought to make a very popular book. Every farmer should have a copy. Who will write the book? Does anybody know why Professor Keffer shouldn't do it?

The more the fruitgrower knows the life history of the insects which ravage his fruit the better he is prepared to combat them. He must be ready to meet them with an insecticide when they appear for an attack.

Mulch For Peach Trees

There is much difference of opinion as to what a mulch for peach trees should be. Some growers use straw, or leaves, or any old thing that comes handy. Others say all this litter only affords a harbor for curculio and other pests. Besides they say it is expensive to obtain for large orchards especially the straw—and must be frequently renewed.

What substitute do they offer? A dust mulch they say is the thing. It lets air into the ground better. It costs nothing but the labor of scratching the surface. Other crops may also be grown, especially berries, but the wisdom of this is in doubt, for as the trees grow large their roots permeate all intervening spaces in search of plant food, and other crops would rob them, yet possibly not to the extent of the extra profit afforded.

Overdone Crops

It pays to think twice about some things before you pitch in. The most common mistake is to plant extensively some crop that paid well the year before. It seems as if all sensible people ought not to make this mistake, but as yet, most of them do.

Of course, it would be as bad for nobody at all to plant successful crops of the previous year. The best way is for all to be moderate in all crops and thus avoid gluts and failures. An average business is always the safest business. Risky specializing is too close an approach to gambling.

It is just as bad a mistake to cut out a crop next year only because it was overdone and profitless this year. If it is really a good thing it is likely to pay again next year because so many growers will fight shy of it. This is a matter in which common sense comes in very handy.

Fruit In Cold Storage

Those who put apples into cold storage complain of a soft rot which especially attacks bruised places. It comes from rough handling when gathering and failure to get the fruit at once into a low temperature and keep it there. To allow the warehouse temperature to rise above the required limit increases the damage.

It has also been noticed in shipping peaches that the ripening process must be checked at once after picking by putting the fruit immediately into refrigerator cars and keeping the car in low temperature uniformly from top to bottom. On reaching their destination the peaches at the top of the car are often found to be in an advanced stage of ripeness and beginning to rot while those at the bottom have undergone but little or no change. This is because the icing was not sufficient to check all action at once and the warmer air rising to the top ripens and rots the upper layers.

Study Your Market.

It is important to study your market closely and know just what your customers want. Many whims and fads influence the buyer.

Some towns want white eggs while others prefer yellow ones. Even the color of your tomatoes makes a difference in sales. A certain vegetable may be popular in one place and little demanded in another. In some markets okra is a standard and in others practically unknown.

The way things are put up varies. One season wants grapes in baskets; another demands them in pokes. The raddish bunch in this town and that varies in size.

Why all this is so you may never be able to find out and you need not try. The thing for you is to find out beforehand what the demand is and then make ready to supply it. It is the only way to reap greatest profits.

BARRED ROCKS

EXCLUSIVELY. Large size, vigorous stock—farm raised. Excellent laying strain.
Eggs \$1.50 for 15; \$2.50 for 30; \$3.50 for 45.
M. L. DAMERON, Route 1, Natchez, Miss.

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Champion Exhibition

Barred Rocks

Winners in the fastest company wherever exhibited and can win for you.

I have for sale a few High Class Cocks, Hens, Pullets and Cockerels, in either breeders or exhibition birds, and if in need of something fancy, write me. My birds are noted for their size and steel blue barring, and are great layers, as well as the best of exhibition birds. They have won more prizes this season exhibited by me in person than all their competitors combined. I make this statement and can prove it by facts and figures. Note their show record at Augusta, Ga., Nov. 2-7th, 1908.

1-3-5 Cockerels, 1-2 Hens, (two entered) 1-2-4 Pullets, 2nd Pen, no Cock birds shown, and at Charleston, S. C., Dec. 8-12th, 1908, they won 1-2-3-4 Cockerels, 1-3 Cocks, (two entered) 1st Pullet, 1st and 2nd Pens. I won a total of 50 points and all my competitors together in a class of 73 Barred Rocks only got 36 points together. They have also won at Charlotte, and Asheville, N. C., Augusta, Ga., Greenville and Rock Hill, S. C., Knoxville, Tenn.

I can furnish you a show bird for the January show that can win or your money back, or a high class breeder to improve your stock.

Will have for sale after January first, 1909, eggs from the best Pens of Barred Rocks ever mated in the South, and that will certainly produce you prize winning birds. Price \$3.00 per 13, or two settings for \$5.00. I make a specialty of Barred Rocks and have spared neither pains or expense in purchasing for my foundation stock the best that money or brains could produce.

REFERENCES. The Bank of Bishopville, The Peoples Bank, the Mayor of this place, or any Mercantile Agency, or any person to whom I ever sold a chicken or an egg. Write for Prices and Particulars.

G. FRANK KELLEY

Attorney-at-Law

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SINGLE COMB BROWN LEGHORN FARM

Beautiful strain of prize winning stock mated by best judge in the South. Eggs \$2 per setting; Incubator eggs \$5 per 100. C. G. Guffey, Athens, Tenn.

Rose Comb Rhode Island Reds

Won at two shows in Marietta, Ga., 1907, 6 firsts, 2 seconds, 2 thirds. State Fair, Atlanta, Ga., 1908, 3 firsts, 1 second. Mobile, Ala., 1908, a clean sweep; 5 firsts, 2 seconds, silver cup for best pen in show any variety; also club badges for shape and color. Eggs \$2.00, \$2.50 and \$3.00 per 15. Mating list free. No stock for sale.

S. L. ALLEN, R. F. D. No. 2, Marietta, Ga.

S. C. BUFF ORPINGTONS

One pen headed by a \$300 cockerel. Won 1st at Greater Nashville Show 1908. Judge McClave says he is among the best cock birds that has passed through his hands during the year. Mated to him is a first premium hen of Greater Nashville Show, 1908. She has been shown four times in large shows and strong classes, and never lost a blue. 1st at Birmingham, 1907; 1st at Columbus 1908, and 1st at Pulaski, 1908. In same pen is 2nd prize hen Greater Nashville Show. She was first prize pullet Nashville, January 1907 and 2nd prize hen at Nashville State Fair. Also in this pen is first, second and third hens, Nashville, 1907, together with two of Wm. Cook & Sons' best pullets. This pen of 1 cockerel and 8 hens has taken 20 blue ribbons. This pen has 20 first premiums won at National Shows.

One pen is headed by "Seigfried," the Champion Cock bird, S. C. Buff Orpington. He has never met defeat. Has five blue ribbons. Mated to him is first prize pullet of Tiffin, Ohio, 1907, and two 1st premium hens of Madison Square Garden and two of William Cook's best pullets. Every hen in this pen is a blue ribbon winner. I have unquestionably the finest stock in the South, and have taken first prizes wherever shown. Better Orpingtons cannot be found. Eggs from either pen \$3.00 for 15.

MRS. S. C. BRIDGEWATER, Dixon Springs, Tenn.

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Southern Bee Culture and HEN one year 75c.
Gleanings in Bee Culture and THE HEN
 one year \$1.00

Special Notice

THE INDUSTRIOUS HEN is very anxious to know whether or not enough of her readers are interested in bee-culture to keep up this department. This can be settled very soon, if every interested subscriber will say so by dropping a postal card to THE INDUSTRIOUS HEN, Knoxville, Tenn. We shall take it as a great favor if you will write at once.

A Bee Book for Beginners

We have before us a bee book which we like. It is Southern Bee Culture by J. J. Wilder, of Cordele, Ga. This is just the book for beginners and the common farmer. It tells everything in a simple and very attractive way, and yet the scientist would read it with interest and profit. It tells all about transferring, hiving swarms, wintering bees, making hives, managing bees, out-apiaries, queen-rearing, bee pasture, and anything else that you want to know in the bee line. Price prepaid by mail, 50 cents, or with a year's subscription to THE HEN, 75 cents.

Bee Notes

Honey-bees have been used in greenhouses to fertilize cucumber blooms but they refuse to work on tomatoes.

Some beekeepers have used as high as sixteen frame hives but no special advantage could be seen. Eight or ten frames are preferable.

Old beekeepers used to "rob" at night. The modern robber takes daylight for this job. He can see better and avoids crawling bees.

If your bees have too much drone comb in any of the frames, cut out the whole and substitute a full sheet of wired, worker foundation.

Some claim that comb is indigestible and should not be eaten with the honey. Others say this fact makes it an antidote for constipation and is its strongest recommendation.

If you want always to get ready sale for your honey, be careful to deal justly and give satisfaction. A pleased customer is sure to call for more goods.

One of the troubles with large hives is that the queen cannot always fill them with brood. Yet the side frames may be utilized as honey carriers and thus reduce solitude about winter stores.

When necessary bees should be fed in the fall before cold weather comes on. They should go into winter with full stores. They must be fed again in the warm spring weather when stores have been exhausted.

If you want to make your bees pay, talk honey among your customers. Tell them how wholesome it is and how sweet and nice as a table dish. There is nothing like being interested yourself, if you want others to be interested.

During the summer season a working bee lives 45 days, but, including the winter season, the time is often extended to 8 or 10 months. This statement is given on the authority of G. M. Doo-

little, one of the greatest American beekeepers.

Always feed bees just before nightfall in order to prevent robbing. If fed during the day, they rush out of the hive with excitement and thus attract robbers who precipitate a conflict that is apt to last until darkness drives them home.

Bee and Poultry Supplies Being Handled in a Large Way

The well-known house of Otto Schwill & Co., Memphis, Tenn., having seen a large field for the demand of bee and poultry supplies have added these departments to their already large seed trade, and have now in stock several cars of the G. B. Lewis beware in addition to their own brands of poultry foods. In addition to this, they are agents for the celebrated Cypher's Model, Prairie State and Mandy Lee incubators and brooders, also the Humphrey Clover Cutters and Bone Mills. Their immense warehouses at 18-20 South Front St. contain eight floors filled with garden and farm seeds, poultry and stock foods, bee supplies and implements. Don't fail to write for one of their new catalogues. Their shipping facilities are unexcelled, and customers are guaranteed satisfaction.

This firm has been established now over forty years, and their merited confidence is a proof that their goods are as advertised. Don't fail to write them for information on anything needed in the bee or poultry supplies.

Winter Study.

The bees are now at rest and their master should put in a little time in getting better acquainted with his profession. He should have one or more first-class manuals and take a good bee journal.

After getting acquainted with the general life of the bee and the economy of the hive, the time of the honey flow from the various flowers should be made

familiar. Such knowledge is very necessary to the best success in honey production.

The nature of the work at each season of the year should be carefully studied out so nothing may be omitted at the proper time. The dates for putting on supers and taking them off should be clearly fixed in mind. Young beekeepers are often puzzled by such questions.

Transferring, feeding, the care of swarms, and numerous other details should become familiar in the keeper's mind and experience. To put knowledge into practice as soon as possible is all important. Visits to well-conducted apiaries in season will help greatly to reduce theories to practice.

A Bee Mystery.

The production of a queen bee is a great biological mystery. An egg taken from a worker cell and placed in a queen cell makes a queen, but an egg taken from a queen cell and hatched in a worker cell makes a working bee. The royal jelly has been thought to make the difference, but how could this possibly be? The whole thing is one of the unexplainable mysteries of nature. How can food make two bees structurally different? If not food, what does it? Who can tell?

POULTRY AND BEE SUPPLIES

Headquarters and Southern Agents for
LEWIS' BEE WARE

Cyphers Model, Prairie State
 Mandy Lee and Metal Mother

INCUBATORS AND BROODERS

The Mandy Lee Fireless Brooders
 are simply perfection.

CRESCENT BRANDS Chick Feed, Mica Grit,
 Oyster Shells, etc., are the best,
 Write quick for our 1909 catalogue of seeds
 and poultry foods. Established 1869.

OTTO SCHWILL & CO., SEEDSMEN
 Box 73, MEMPHIS, TENN.



Black Minorcas lay by far the largest and whitest eggs of any breed of fowls. When above photo was made I had but four dozen to select from; first dozen weighed 34 oz.; second dozen 32 oz. I have often had single eggs weigh 4 oz. Two dozen Minorca eggs will equal three dozen ordinary eggs in weight and food value. If these eggs were selling by the pound they would bring 33c. dozen against 21c. dozen which was the market price when photo was made. I have some customers who have gotten stock from me that have a fine egg trade with standing orders for all the Minorca eggs they can supply at 10c. dozen above market price. Why keep a breed that will not lay as many eggs in number, and those produced are one-third less value for food?—C. H. Ledford, Atlanta, Ga.

To Prohibit Sale of Storage Eggs

Among the acts which the Pennsylvania Legislature will be asked to pass at its coming session will be one prohibiting the sale of cold storage eggs or poultry unless plainly labeled as such. This will be done to protect the public against nefarious and unsavory practices and to promote the health of consumers.

It is proposed to get at the cold storage evil by providing that fowls or eggs kept in refrigerating establishments for more than 10 days shall be labeled "cold storage," so that the purchaser may not be left in the dark concerning the quality of the goods he is getting. Another requirement will be that poultry shall be cleaned and drawn before being placed in cold storage. It has come to the knowledge of the Dairy and Food Division that chickens, ducks and other fowls are kept sometimes in cold storage houses for two years, the entrails not having been removed, and are then sold for food. Under the proposed law persons guilty of violating the provision prohibiting this will be liable to a fine of from \$50 to \$500 and imprisonment from 30 to 90 days.

The circumstances urgently demand the enactment of such a law. The lives and health of the consuming public are constantly threatened by articles of food which have undergone a chemical change during the cold storage process. There does not seem to be any special reason why eggs or fowls should be stored for years. In any event the purchaser has the right to be informed concerning his purchases. If the articles he buys have been in cold storage he should be properly enlightened.

The above from the *Cincinnati Produce News* is worthy of consideration by farmer legislators. Tennessee should have such a law enacted.

Disqualify for Defects

WILLISTON, TENN., Dec. 17, 1908.

Industrious Hen:

I want to indorse McCulloch's article in your December issue, especially on the egg question. "Fine feathers are O. K." I like them, "but we cannot live on them." Let's know something of the egg record, as well as the records of prizes won for "form and feather."—J. W. DOUGAN.

DESMOND, FLA., Dec. 11, 1908.

Editor Industrious Hen:

"We must not abandon disqualifications in fowls. There would be no limit to fakirs. It would cause trouble in the ranks of the A. P. A. There may be improvements needed in the Standard, but we would consider the abandonment of disqualifications a step in the wrong direction."—T. J. STRICKLER.

S. C. WHITE LEGHORNS
Choice Stock for Sale
Eggs \$2.00 per 15
JOHN C. CRAWFORD, MARYVILLE, TENN.

S. C. Rhode Island Reds
Cockerels only. Carefully selected for breeding purposes. Correct type. Right color. \$2.00 each.
C. L. GRIGSBY, White Horn, Tennessee

Hatch Chickens By Steam

Stahl's "Excelsior" and "Wooden Hen" Incubators are famous for their hatching records. Perfectly designed, well constructed, satisfactory in every detail—require but little attention. 50 to 600 eggs. Catalogue free on request.

GEO. H. STAHL, BOX 48-B, QUINCY, ILL.

Buff Orpingtons Nine lb. hens that lay and win. Eggs from 2nd pen, Memphis, \$3 per 15. Other pens; good stock, \$2 per 15. Express prepaid.
MRS. W. A. GIBBON, CONWAY, ARK.

S. C. White Orpingtons
The Strain that Lays
Eggs, \$2 for 15
J. C. MOORE Dothan, Ala.

THE WALLACE
SINGLE COMB BROWN LEGHORNS
WINNERS AND LAYERS

Four pens mated for egg trade. Two pens for exhibition cockerels. Two pens for exhibition pullets. Price for eggs \$2.00 to \$4.00 per 15. I have bred S. C. Brown Leghorns for seven years. I guarantee my birds to be of fine quality. Won 7 prizes at October fair, Dalton, Ga., Julian McCamy, Judge. If you want something good in Brown Leghorns write me what you want. Free mating list on request. Birds for sale. Address

JOE L. WALLACE, Dalton, Ga.

CAPON TOOLS

2000 Early Hen Hatched Reds, 1000 Yearlings for Sale at Hard Time Prices.

De Graff's Book on Reds is the Finest Poultry Book Ever Published.

CIRCULAR FREE.

De GRAFF POULTRY FARM, Amsterdam, N. Y.

A. C. SNODDY
Columbian Wyandotte Specialist
NEWPORT, TENN.

Won 1st pair, Newport; 1st pullet, 3rd cockerel, Knoxville. The highest scoring Columbian in show.

ROSE C. BLACK MINORCAS, COLUMBIAN WYANDOTTES.

Trap nest pedigree layers and exhibition birds for sale. Superb in quality. Are unequaled as egg producers.

S. T. CAMPBELL, Mansfield, O.

FISHEL WHITE ROCKS At HALF PRICE
Knapp Bros'. White Leghorns **Dirt Cheap**

S. C. Rhode Island Reds
AS RED AS THEY GROW

Grand pen of two-year-old White Rocks, direct from Fishel, cost \$57; first draft for \$28.50 gets them; grand, large, snow-white birds. A pen of yearlings, bred from above \$18. White Leghorns \$1 each while they last. Pen of Reds, headed by an Eastern winner, \$25; splendid early hatched youngsters \$5 per trio. First money gets pick; must sell.

C. W. BUTTLES
59th and Jackson Ave., Kansas City, Mo.

S. C. BUFF ORPINGTONS**MY SPECIALTY.****Winning at the Hempstead County Fair,**

1st and 2nd ckl., 1st and 2nd pul., 1st pen and special for highest scoring pullet of any class in entire show. Watkins, Judge.

At the State Fair Show at Hot Springs,

1st and 2nd ckl., 1st and 2nd pul., 1st and 2nd pen. Blanks, judge. There are no better Orpingtons in the South West. Eggs, \$3.00 and \$5.00 for 15. All infertile eggs replaced. Write for mating list.

C. P. BRIDEWELL, - - - Hope Ark.

McFERRIN'S EUREKA PLYMOUTH ROCKS BARRED AND WHITE

1908 Winnings.—Tennessee State Fair: Barred Rocks, 3rd cock, 2nd and 3rd hen, 2nd pullet. White Rocks, 1st cockerel; also White Rocks, Springfield, 1st and 2nd hen; 1st, 2nd and 3rd pullet; 2nd cockerel, and 1st pen. Incubator eggs and day-old chicks.

Bargains in Cockerels.

Pedigreed Collies.

SANFORD McFERRIN, SPRINGFIELD, TENN.

Vegetables for Winter

A gardener tells how he keeps vegetables through the winter:

Potatoes I put in barrels in the cellar keeping them in the dark.

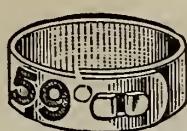
Squashes and pumpkins are best kept in a dry place where the thermometer will indicate forty to fifty degrees.

The best temperature for most vegetables is about thirty-five degrees, and for all roots the surrounding air should be fairly damp.

Onions are stored in a dry loft where it freezes, and those intended for spring market are allowed to freeze, and are then covered with hay or straw to a depth of a foot, and this is not removed until the frost is entirely drawn out. Those intended for winter sales are not allowed to freeze nor to grow with too much heat. The best temperature is about thirty-two degrees.

**The Fence That Lasts**

There isn't anything that the farmer buys in which a mistake is more hopeless than in wire fence. If he gets "stuck" he is stuck for good, because there is no possible way of remedying the defect; it is a case of buying a new fence. The Brown Fence & Wire Company, of Cleveland, Ohio, is sending out some interesting literature on wire fence, showing why so much of the fence put up in recent years has rusted out and gone to pieces in so short a time. They point out very clearly that a fence, like a chain, is only as strong as its weakest part. It must be good all over to be good at all. A strong, heavy stay or upright is as much important as a heavy lateral. They moreover show that in recent years much of the galvanizing that has been done is hardly worth the name galvanizing at all. The wire is merely dipped into melted zinc instead of being put through

**IDEAL ALUMINUM LEG BAND**

To Mark Chickens
CHEAPEST AND BEST
12 for 15c; 25-25c; 50-40c; 100-75c.
Sample Band Mailed for 2c Stamp.
Frank Myers, Mfr. Box 50, Freeport, Ill.

**S. C. BROWN LEGHORNS
AND S. C. R. I. REDS**

1st Cockerel, 1st, 2nd and 3rd pullets and first pen. Records at Alabama State Fair, Birmingham, Ala., 1908. Eggs from either special mating \$2.50 per 15.

DOSS BROS., PIONEER POULTRY YARDS
MILTON DOSS Mgr., Kimberl., Ala.

**THE CLIPPER**

will cut tall grass, short grass and weeds, and do all the trimming along the fences, walks and drives.

If your dealers do not keep them, let us know, and we will send circulars and prices.

Clipper Lawn Mower
Co., Dixon Ill.

INDIAN RUNNER DUCKS

First prize winners at World's Fair, St. Louis, Mo.; Herald Square, New York; Kansas City, Mo.; Chicago, Ill.

WHITE WYANDOTTES, white as snow. State show winners, Silver Cup winners. Birds score to 96, Pen to 101. Catalogue free. Expert poultry judge. Write me for terms and dates. R. L. CASTLEBERRY, McCune, Kan.

a true galvanizing process. We know every one of our readers will be interested in what Mr. Brown has to say on this fence question. Send to him for his little book. It will open your eyes.

Norton's Reds and Rocks

At the recent show at McMinnville, Tenn., J. O. Norton, Nashville, won on S. C. R. I. Reds as follows: 1 ckl; 3 ck; 1, 2, 3 hen and 2 pen. On B. P. Rocks, 2 ck; 1 ckl; 1, 2 hen; 1, 2 pul. and 1 pen. Norton's Reds and Rocks are sure winners.

EGGS BRED TO LAY EGGS

S. C. R. I. REDS and WHITE WYANDOTTES—Eggs \$1.75 per 15; \$3.00 per 30; \$8.00 per 100. Farm raised stock for sale.

R. ADDISON, Loughman, Florida

**LUMLEY'S BLACK LANGSHANS
WHITE LANGSHANS. S. C. R. I. REDS**

Pekin and Indian Runner Ducks. 5 1st premiums on B. Langshans at Atlanta Fair. All 1st and 2nd on B. & W. Langshans at Macon Fair. Won a 1st or 2nd on every bird shown except one pair. Stock and eggs for sale at right prices.

W. E. LUMLEY, Wrightsville, Ga.

NO HATCH NO PAY. Eggs 15 for \$2.

Pay for what hatch. Send only \$1.00 now. If over half hatch pay balance at that rate. If less we refund at the same rate. Eggs laid by first prize winner brood males or selected progeny. S. C. W. Leghorns, pure bred laying strain. Winter eggs hatch stronger chicks—not so many but that is our loss. Winter hatched pullets make best winter layers, and the cockerels are right for tip top spring price.

PIERCE POULTRY CO., Rogersville, Tenn.

**S. C. BROWN LEGHORNS
S. C. R. I. REDS.**

Winners Nashville, Knoxville, Tenn., Atlanta, Macon, Ga., Mobile, Ala.

Eggs, Prize matings, R. I. Reds \$5.

Special matings \$3.00.

Leghorns, \$3.00 and \$1.50.

Write us your wants. Satisfaction guaranteed.

Muckalee Poultry Yards

L. P. GARTNER, Prop. Americus, Ga.

**SINGLE COMB RHODE ISLAND REDS
BUFF WYANDOTTES**

Eggs for hatching after January 15, \$2 and \$3 per 15. Incubator eggs \$5.00 per 100.

DR. E. S. LANDESS, FAYETTEVILLE, TENN.

**New Location! New Yards!
BY OLD BREEDERS**

Send for our fine catalogue of eighteen varieties of the leading breeds of fowls and six varieties of Pheasants, winning 21 first, 18 second, 18 third and 9 fourth prizes, and 11 specials at our show, Knoxville, Tenn., Dec. 9-12, 1908. We have some extra fine cockerels and a few pullets for sale, also eggs now ready. Early birds win the prizes.

VALLEY VIEW POULTRY FARMS

H. C. AUSTIN, Manager, R. 1, KNOXVILLE, TENN.

Eggs \$2 and \$3 per
Setting of 15

White Wyandottes
Exclusively

Cottage Home Gardens

W. R. TEEPELL, Proprietor

Route No. 6

Knoxville, Tenn.

Holiday Edition Breeder's Gazette

This number is the handsomest magazine of its kind ever published, and we insist on every reader of THE HEN who is interested in live stock to get the *Breeder's Gazette*. It is published weekly at \$2 a year, and as a special offer for sixty days we will give absolutely free three years subscription to THE HEN to those who will send us \$2 for a year's subscription to the *Breeder's Gazette*.

Cheerful Hens Lay Eggs

It is the singing, good humored hen that lays the eggs. Good humor means not only proper feeding but also being kept warm and comfortable. Drinking ice water is a great egg retarder. The chill should be taken off the water. Hens want water often. It should be fresh but not cold to chill the hens through and through. That's why the Automatic Non-Freezing Drinking Fountain advertised elsewhere is so valuable in the poultry yard. It takes the chill off. It is a frost proof appliance that costs little and it costs little to run it. Hens scratch and eat and drink and sing and keep it up all day. It is an egg producing little device made by the Automatic Hatching Co., at Flint, Mich., who make the celebrated Mother Hen Brooder which warms chicks' backs and nerves by top heating. Write for their circular No. 32 giving particulars.

New Arkansas Advertisers

It is always a pleasure to know a fancier whose ambition is to breed the best or none. And whose determination to succeed is only equaled by his love for the birds that he raises. Such a man is C. P. Bridewell, the Buff Orpington breeder of Hope, Arkansas, whose ad. starts in this issue. Mr. Bridewell's foundation stock comes direct from the originator and the writer can truthfully say that he never saw or handled more typical Orpingtons in shape and size than are those of Mr. Bridewell's; while as to color there are few buff breeders who can show their equal. These great massive birds with their clear, solid, uniform shade of buff are sure good to look upon, and we can cheerfully refer anyone wanting superior Buff Orpingtons to Mr. Bridewell.

Mr. Geo. Green, of Bentonville, Ark., sent two R. C. R. I. Red cockerels and one pullet to the recent St. Louis show and won 2d and 3d cockerel in one of the strongest Red classes in the country. It is ever thus. Whenever a Southern breeder gets up sufficient nerve to go into a Northern show he invariably makes a killing. Our early hatching and long growing season does it. But then Mr. Green is a very successful breeder of Reds and starts an ad. in this issue of the HEN.

Otis T. Wingo, of DeQueen, is another Arkansas breeder who starts his ad. with the new year. Col. Wingo is not only President of the Arkansas State Poultry Association but represents his district in the Legislature as State Senator, and last but not least, breeds some of the best Columbian Wyandottes in the Southwest. He breeds for quality and his birds are remarkably strong in wing and hackle.—S. C. W.

FISHEL STRAIN

W. P. ROCKS AND PEKIN DUCKS

Winners in American leading shows. White Rocks with long body, grand in style, large and snow white. Choice scored Cockerels \$2.00 and up. Eggs from select winners by the setting or hundred. Pekin Ducks, large with long body, great layers, fine specimens at real bargains. Allen Chastain, Box H. 59. Saltillo, Ind.

Chickens and Eggs for Sale

We have the Black Minorca, Plymouth Rocks, Rhode Island Reds and White Leghorns. Also

MAMMOTH TURKEYS, PEKIN DUCKS AND BERKSHIRE PIGS

We Make a Specialty of Mail Orders.

FORT LEWIS STOCK, POULTRY AND DAIRY FARM, SALEM, VA.**Baby Chicks by Express**

We are constantly realizing that concentration and specialization of effort is producing results unheard of in days of yore. The up-to-date method of installing a new flock or improving an old one now is to buy the chicks while they are still "hot from the incubator." We already have several hatcheries in Ohio where the sale and transportation of Baby Chicks is reduced to a science. Probably one of the most successful plants is located in Bellevue. The Ohio Hatchery and Mfg. Co. Last year this firm sent out over 60,000 chicks that went peeping, peeping, peeping into nearly every state in the Union and many found their way into British Columbia—a distance of almost 3,000 miles. The advantage derived by the purchaser is greater than appears at first glance. One does not pay a fancy price for infertile eggs nor dead-in-the-shell birds. Ready hatched chicks show their blood; thus the chance of imposture is reduced to a minimum. The greatest surprise is the selling price—from eight to fifteen cents each. Less than we pay for first class eggs. Their new catalogue explains their method of incubation and shipment, and lists all appliances needed on any kind of poultry farm. This book is sold at a nominal price, 25c., circulars and leaflets can be had for the asking. If you fail to catch a glimmer of the new light it is simply because you neglect to grasp opportunities.

Crown Bone Cutter

**Best
Made.
Lowest
in
Price**



FEED your hens cut green bone and get more eggs. With a Crown Bone Cutter you can cut up all scrap bones easily and quickly, and without any trouble, and have cut bone fresh every day for your poultry. Send at once for free catalogue. WILSON BROS., Box 646, Easton, Pa.

My S. C. RHODE ISLAND REDS

Win again at Knoxville and Bristol. Why not get the best. Stock and eggs for sale.

SAM M. COOPER, Fountain City, Tenn.

S. C. BUFF LEGHORNS

Eggs \$2.00 for 15, \$3.50 for 30, \$8.00 for 100.

ROBT. P. ADAMS

R. F. D. No. 1, Lynchburg, Va.

NOTICE.

Mr. J. W. Zink, Evergreen Plantation, Orange Grove, Miss., says: "I consider the Thomas Convertible Brooder the best I have ever seen for this climate. The chicks can always have plenty of fresh air, which is so necessary."

It matters not where you live—North, South, East or West—the results are all the same. The Thomas Convertible Brooder "does its duty," no matter where you are or who you are.

The Thomas Convertible Brooder is made in one size only. Price, \$8.

Write for free illustrated catalogue.

The H. J. THOMAS BROODER COMPANY,
Dept. A. DETROIT, MICHIGAN.

FRANK'S REDS**S. C. R. I. REDS****RED MONARCH**

(Cockerel) of first pen, Augusta.

RED FEATHER

2nd cockerel, Birmingham; 3rd cockerel, Nashville; 3rd pen, Nashville.

OLD GLORY

1st cockerel, Cincinnati; A. P. A. Show, 1906.

EGGS \$3 to \$7

Write for Catalogue.

JAMES M. FRANK

Care Frank & Co.

NASHVILLE, TENN.

Business White Wyandottes

Trap nests used. Every pen headed by a male hatched from an egg laid by a hen that laid not less than 200 eggs that year.

Business Light Brahmans

Same quality
Stock for sale. Eggs in season.
Circulars free.

MICHAEL K. BOYER Hammonton, N. J.

HOLSTON STRAIN

SINGLE COMB WHITE LEGHORNS

are the greatest egg producers known, one hen having laid by actual record 286 eggs in one year. One pen of 13 hens laid 2479 eggs from Jan. 4 to Sept. 30.

Eggs \$2.00, \$3.00 and \$5.00 per 15. SATISFACTION OR MONEY BACK.

NOLA CHUCKY POULTRY FARM, R. 7, Morristown, Tenn.

Black Minorcas, Barred and White Plymouth Rocks AS GOOD AS THE BEST

My birds have won over 100 prizes in the leading Southern Shows the past two seasons, winning the Blue at Nashville, Memphis, Birmingham, Atlanta, Augusta and Mobile this fall. Show birds and utility stock for sale. Special prices on cockerels if taken at once. I need the room. Eggs, \$2, \$3 and \$5 per Setting. Send for Pen Matings and Show Record.

C. H. LEDFERD, 33 Sells Ave., ATLANTA, GA.

Black Orpingtons Exclusively

Miss Alice Pelton, manager of the Park Poultry Pens, at Nashville, has disposed of her several breeds and in future will raise Black Orpingtons exclusively. She has large breeding pens and plenty of range and is devoting her life work to perfecting a strain that will at no distant date become famous. Her birds have always won and great was the interest exhibited at the recent Nashville show, where she took 1st cock, hen, cockerel, pullet, pen and beautiful silver cup for best pen in English class.

Keeping Records

On large poultry farms very careful records are kept, but the ordinary poultry raiser has very little idea of the results he is actually getting. Therefore, the book which the George Ertel Company of Quincy, Ill., are getting out this year, which they call their "Poultry Diary," is something that is likely to prove very valuable. No matter how small the flock it is worth while to know the returns secured. There is no doubt that if many general farmers had the records they would find that their hens are doing better for them than other live stock. This little book of the Ertels is free, and they will gladly send copies to readers of THE INDUSTRIOUS HEN who ask for it. The book has pages for recording the egg output, the incubator output, cost of feed and supplies and the amounts received for eggs and poultry sold. Be sure to mention INDUSTRIOUS HEN in writing for it.

The Arkansas State Poultry and Pet Stock Association

Has undertaken a new departure in the matter of boosting the poultry business of the State by methods other than holding a big winter show. We don't intend to neglect the State show, but as winter shows reach only a comparatively small number of people, and as the State association belongs to the entire state, our aim will be to foster an interest in the local shows and also to make a strong effort to disseminate useful and practical information on the subject of profitable poultry growing. This last we expect to accomplish by publishing and distributing an educational booklet entitled "Profits and Possibilities of Poultry growing in Arkansas." This will contain a series of practical articles by Arkansas writers, covering every phase of the poultry business, but with especial reference the question of profitable poultry raising on the farm. The writer has found in all parts of the State a great interest manifested in the poultry industry, and yet at the same time a lamentable lack of knowledge as to practical methods of handling fowls in sufficient numbers to be profitable. We hope in a small measure to supply a portion of the information desired and also arouse a greater interest in breeding the better grades of pure bred stock. We especially desire to interest the farming classes in raising a better grade of poultry along practical and profitable lines. This booklet will be for free distribution to all who ask for it within this State. To all outside the State a charge of 25 cents will be made. G. C. Watkins, Secy., Siloam Springs, Ark.

WHITEWASHING
and disinfecting with the new
"Kant-Klog" Sprayer
gives twice the results with same
labor and fluid. Also for spraying
trees, vines, vegetables, etc.
Booklet free. Address
Rochester Spray Pump Co.
31 East Av., Rochester, N.Y.

S. C. BUFF ORPINGTONS

Blue Blooded, Well Brood, Well Raised Winners. My birds are good to eat, good to lay, good to show. Won at Knoxville, Dec. '06, 1 ckl; 1, 2, 3, 4 pul; 1 pen; club specials for best cock, hen and pen and Grand Silver Cup of Na. S. C. Buff Orpington Club. Eggs \$3.00 per setting.

A. C. COCHRAN -- KNOXVILLE, TENN.

S. C. Black Minorcas Exclusively

Winners of 29 prizes and 2 silver cups at Spokane, Tacoma, Seattle and Wenatchee. Every bird up in weight. Choice exhibition and breeding birds at rock bottom prices. Eggs from first prize winners \$3 per 15. Satisfaction guaranteed. Write for winnings and special mating list.

G. E. BUTTLES, 536 Coscoode St., WENATCHEE, WASH.

IT MAKES HENS LAY

Neighbors Get Only Seven.
"I really don't believe I could possibly get along without Lee's Egg Maker. I get from 36 to 40 eggs every day, regardless of the weather, while my neighbors, who do not use it, get 6 or 7."

(Signed) Mrs. J. O. Chenoweth,
Dexter, W. Va.

SHE GETS 36 DAILY

The above forcibly illustrates the difference between Lee's Egg Maker and other poultry foods. Our product is the result of more than 20 years actual feeding experiments of **practical poultrymen**. It furnishes those things the fowl must have to insure a maximum egg-production **out of season**. Don't be fooled by the kind that is just like Lee's—there isn't any either in appearance or result-giving properties. Try

Lee's Egg Maker

first and buy it on our guaranty to be the **cheapest and best poultry food obtainable regardless of price**.

Lee's Egg Maker is composed largely of granulated blood (deodorized), the most highly concentrated form of meat food, **one pound of which is equal to 16 pounds of fresh beef**.

It is rich in protein—a natural poultry food that not only insures a maximum egg-production but makes fowls stronger, healthier, and more profitable in every way.

Buy it on our guaranty of an increased egg-production at a reduced feeding cost.

Prices: 25c to \$2.00 according to size.

GEO. H. LEE CO., Sole Mfrs.
1136 Harney St., Omaha, Nebr.

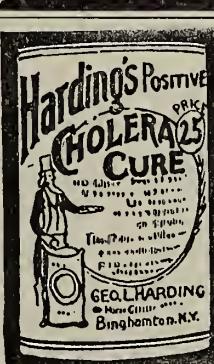
Ask your dealer or send to us direct.

Send for free books—"Mandy's Poultry School," "20 Years with Poultry," "Incubator Hygrometry" or 1909 Catalog Mandy Lee Incubators and Brooders.

GENERAL AGENTS.

BOSTON, MASS.—Fiske Seed Co.

TAMPA, FLA.—Crenshaw Bros. Seed Co.; SALT LAKE CITY, UTAH.—Porter-Walton Co.; DALLAS, TEXAS.—Robinson Plant and Seed Co.; LOS ANGELES, CALIF.—Henry Albers, Co.; PORTLAND, OREGON.—Portland Seed Co.

**You Will Get Your Money Back**

If any of the following remedies fail to give the results claimed for them,

Harding's Positive Cholera Cure, - 25c. By mail, 40c.
Harding's Successful Roup Cure, By mail, 50c.
Harding's Antiseptic Lice Killer, - 25c. By mail, 40c.
Harding's Head Lice Ointment, By mail, 25c.

If your dealer cannot supply you, write the undersigned. Take no substitute.

Use Harding's Granulated Milk for Poultry. \$3.00 per 100 lbs.
Clean, Dry, Wholesome. Keeps in any climate. Write for free booklet today.

Geo. L. Harding, Box 66. Binghamton, N.Y.

WILBER'S WORLD'S BEST S. C. WHITE LECHORNS
America's Greatest Layers and Winners.

Handsome Catalogue and
1909 Mating List are Free.

WILBER BROS., Box G, Petros, Tenn.

Herman's Buff Plymouth Rocks

AT CHARLESTON, S. C., DECEMBER, 1908

Are again in the BLUE RIBBON class in hot competition. Besides SIX Regular Prizes I won the \$10.00 GOLD SPECIAL for Best Display and other specials.

Judge Fowler writes in the Buff Rock "Quarterly" of the Hen class at the Southern District Show, Augusta, Ga., Nov. 1908, "For QUALITY, I believe the Hen class was ahead. FIRST HEN was a peach. For type NO BETTER HAS BEEN SHOWN and with bay eyes, good low comb and GREAT COLOR, it made her a winner." My winning of FIRST HEN and Special for Best Shaped Female, besides the other prizes I won in such competition, shows that I have "BUFF ROCKS OF QUALITY."

Better write now before the best ones are sold. Specially low prices on Cockerels and Trios, quality considered. Eggs \$3.00 per setting. Satisfaction guaranteed.

W. A. HERMAN (Georgia State Vice-Prest.) (American Buff Rock Club) AUGUSTA, GA.

MERRY WIDOW

CHICKS BROODER—All metal, fire-proof, sanitary, self-ventilating contact heat; 100-chick size \$8; 100-chick \$5

STANDARD BREED Rocks, Barred, White and Buff; Leghorns, Brown and White; R. I. Reds; White Wyandottes, Buff Orpingtons, Light Brahmans. 8c up.

Standard Hatchery, Attica, Ohio.

W. Minorcas, W. Wyandottes, Embden Geese, Pekin Ducks

that are bred for quality. At Indianapolis, Ind. on White Minorcas, I won in the strongest company four 1st, three 2nd. At Nashville, Tenn. four 1st, three 2nd. Will furnish a limited number of W. Minorca eggs at \$2.00 per 15. White Wyandotte eggs \$1.50 per 15. Embden Geese eggs 20c each. Pekin Duck eggs \$1.00 per 15. Few more choice S. C. Black Minorca Ck's for sale at prices that will move them. Satisfaction Guaranteed, write

J. F. NITCHER, R. D. 6, Seymour, Ind.

BUFF WYANDOTTES

FROM PRIZE WINNERS

Raised on free range. Eggs from trap-nested hens at \$1.50 per 15.
Beauty and utility combined.

T. L. HARDEN, Hampton, (Carter Co.) Tenn.

Wall's Exhibition Barred P. Rocks

Winners of 11 prizes in 2 years at Augusta and Charleston

EGGS ONLY FOR SALE NOW.

W. E. WALL, VAUCLUSE, S. C.

BRODIES CORDIAL

The Ideal Household Remedy

A sure cure for cramps, colic, cholera, diarrhoea, dysentery, cholera infantum, all bowel troubles.

For Poultry

A teaspoonful to each quart of water will be a sure cure or preventative for all bowel troubles.

I. L. LYONS & CO., Ltd., Proprietors
222 to 226 Camp, 529 to 533 Gravier Sts.

NEW ORLEANS, LA.

R. C. Rhode Island Reds

Mr. S. L. Allen, Marietta, Ga., begins a yearly ad. with us in this issue. He has some grand birds, loves them and will treat you right. They have always won for him wherever shown and he can sell you eggs from these winners. Look up his ad. with list of winnings.

Buff Orpington Club

The 1909 Club Catalogue of the National S. C. Buff Orpington Club is now ready for mailing. This is the finest catalogue ever issued by any specialty club and is of great value to any one interested in poultry. It will be mailed postpaid to anyone for 10 cts. per copy. Will H. Schadt, Secy., Goshen, Ind.

White and Golden Wyandottes

W. E. Johnson & Son made a clean sweep at Frankfort, Ky., Show, December 1st, 1908. On White Wyandottes, scoring from 93 to 96 points, they won 5 firsts, 3 seconds, 2 thirds and 2 fourths. National White Wyandotte Cup for best display and Cup on best pen. On Golden Wyandottes 4 firsts, 1 second and 1 third, and cup on best pen. Also at 6 leading fairs this fall, including State Fair, Louisville, Ky., 28 firsts and 18 seconds.

Wyandotte White Oil

We call our reader's attention this month to the advertisement of Wyandot White Oil. This is the original oil put upon the market made exclusively for poultry use. It has achieved a wonderful success and does away with the usual annoyance and danger of the ordinary oils, as it burns without a heavy crust, does not gum or dirty the lamp and is without the usual offensive odor in burning. The Wyandot Refineries Co. are sending out a very interesting little booklet, which can be had on application to the company at Cleveland, Ohio.

Indiana Quality Show

Held under the auspices of the Hoosier Fanciers' Assn. at Anderson, will indeed be the "Event of the Season," from exhibits promised. Jan. 26-30, 09. They have secured one of the best lighted and best ventilated halls in the state, two of the best judges in the business, the prettiest cups money could buy, and are now prepared to offer you a great big show, good company, fair treatment for yourself and the best of care for your birds. Best of all low entry fees and cups that have to be won but once. Write N. M. McCullough, Secy. for premium list.

 **THE FAVORITE BAND**
Adjustable. Prices post paid, 12 for 15c., 25 for 20c., 50 for 35c., 100 for 60c.
CHAS. L. STILES, Columbus, O.

WHITE AND GOLDEN WYANDOTTES
1908 show record unexcelled, 74 ribbons and 3 handsome cups. Exhibition and utility stock. Eggs in season \$2.00 per setting.
W. E. JOHNSON & SON. Box A, Lexington, Ky.

**WALLS' CRIMSON STRAIN
S. C. RHODE ISLAND REDS**
Yes, you want stock or eggs, and the best. Ours have size, vigor, color, shape; are healthy, hustling, heavily-feathered winter layers. Winners at Cleveland and Columbus, Ohio, and Orleans, Indiana. The best is most satisfactory. Write for prices to-day. Eggs by setting or hundred.
WALLS' POULTRY FARM, Mitchell, Ind.
L. Box 451, A.

WANTED

Everybody who wants to win in the big shows and increase the egg production of their flock to try me for either stock or eggs. My Blue Ribbon Strain

S. C. WHITE LEGHORNS

have won for the past four years at the Great East Tennessee Show, Knoxville, more blue ribbons than all my competitors. Eggs \$1.50 per 15; \$8.00 per 100. Every yard, closely culled and headed by an exhibition male bird.

One special exhibition yard, average score 95 points—eggs \$5.00 per 15; \$8.00 per 30. Stock \$2.00 and up.

WHITE HILL POULTRY FARM
A. J. LAWSON, Prop.
State V.P. Nat'l S.C. White Leghorn Club.
Route 4, Box 2, Cleveland, Tenn.

Push Your Hens — This Winter

They are worth to you just what you get out of them. You can let that be little or you can make it much. You are keeping the hens for the eggs they will lay. Then why not start in with the determination to handle them right and get every egg that it is possible to get and make your profits something worth while?

Darling's Laying Food

is used by most of the truly successful poultry raisers—you should use it also. Its reputation is established. It does not work miracles, it will not make your hens lay an egg a day; but it does contain egg-making ingredients in right quantities, it does promote laying, and it does get the very best results from every hen that she is capable of giving.

Don't you want to start in the winter with a food that fits the need of your hens, a food that induces laying in cold weather, a food scientifically prepared, a food that will pay for itself over and over in the greater number of eggs you will get? Then use Darling's Laying Food

**In 100-lb. Sacks, Price \$2.00
f. o. b. Chicago or New York**

Darling's Scratching Food, Chicago - - -	\$2.00	Darling's Mica Crystal Grit	\$.65
New York - - -	2.25	Darling's Beef Scraps	2.75
Darling's Forcing Food	2.00	Darling's Chick Eeed	2.50

All in 100-lb. Sacks, f. o. b. Chicago or New York. Cash with order.

We still publish that excellent little book, "Fill the Egg Basket." It has done great things for winter egg sellers. Its pointers are just as good as they ever were. Send for a copy. Catalog of foods and superior poultry appliances, free. Address

Darling & Company,

Box 41 Union Stock Yds., Chicago **Box 41 Long Island City, N. Y.**

POULTRY PRINTING

**HAVE YOU ANY STOCK OR EGGS FOR SALE?
If so, we want your name.**

Our Prices are Right, Our Quality the Best.—We have the finest line of poultry cuts in America, representing all varieties. Proof of these, with full line of samples, will be mailed free upon request. We print everything for the poultryman.

POULTRY POST, COSHEN, INDIANA.

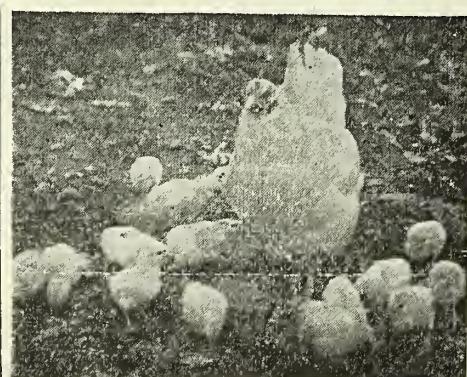
FALLIN'S BUFF ROCKS

WIN THEIR SHARE of the money whenever shown.

Look their record up at the Tennessee State Fair and the Charleston Show, two of the largest shows and strongest classes of Buff Rocks brought out so far this season. See what they won. STOCK AND EGGS for sale. Breeders from \$2 to \$5. Exhibition birds a matter of correspondence. Utility Eggs \$1.50 per 15, \$2.50 per 30, \$5.00 and \$7.50 per 100 for incubator eggs. Special exhibition mating \$3.00 per 15, \$5.00 per 30. Satisfaction and fair hatch guaranteed. Cyphers' 140 egg Incubator, nearly new, and three brooders for sale at your own price. Write for prices and reasons for wanting to sell.

(We send what we sell.)

C. T. FALLIN, GREENVILLE, S. C.



**Blue Blood
Winners** **HARD TO BEAT** **Large Production
Layers**

BAYNE'S EGG RECORD STRAIN OF WHITE WYANDOTTES

With fowls having an average egg record of 198 eggs in a year, I won this season at Knoxville, December, 1906, 1st hen, 3d cock, 2d pen, highest scoring W. W., and had best shaped male. At Bristol, Va., January, 1907., 1st 2d cock; 1st cockerel; 1st, 2d, 3d, 4th hen; 1st, 3d pen; best shaped male, and silver cup for largest winning display of 10 or more birds in American class. My fowls have vigor, health and hardiness; raised on free range—forty acres. Breeds, show or business birds on sale. Eggs, \$2 for 15; \$3.50 for 30; \$4.50 for 50; \$8.00 for 100.

T. L. BAYNE, RUSSELLVILLE, TENN.

No. 6—Score 93; Egg Record 197.

DeWitt Strain

Black Langshan

Cockerels and Pullets for Sale

Winners wherever shown. \$2.00 to \$5.00 according to quality.



DeWITT POULTRY FARM

G. E. GUVERNATOR. Prop.

Highland Park, RICHMOND, VA.

Rumph's Barred and Buff Rocks

Mr. Lewis B. Rumph, Marshallville, Ga., starts an ad. in this issue of the HEN. He breeds Barred and Buff Rocks of best strains, and will ship you what you buy.

Rosebank Poultry Farm

Two of the most enthusiastic Red breeders at Nashville are Mr. and Mrs. Frank G. Davis, who have made some capital winnings, though in the poultry business a short time. First pullet, second pen, third cockerel, and color special at the great Nashville show is quite complimentary. Mr. and Mrs. Davis are spending the month of January at Tampa, Fla., but their Reds are being ably cared for by competent assistants during their absence. in the south.

Farimount, W. Va., Show

Judge S. T. Campbell sends us in the list of winnings, and among other things says: "This practically new territory in the poultry industry held one of the best poultry exhibits it has been the writer's privilege to attend. The show was held the second week in December with eight hundred as fine birds as ever graced a show room. The managing was first class in every particular. Secretary C. D. Conaway is the right man in the right place, even tempered, strictly business from first to last, deservedly popular. There were exhibits from several states, making the competition quite keen, but entirely friendly."

What the Poultry Business is

Five interesting chapters on poultry raising will be found in the new free annual book of Cyphers Incubator Company, Buffalo, N. Y. They cover the subject of Feeding Chickens; Laying Records; Incubating; Brooding and "What the Poultry Business Is." Both beginners and experts will get from these chapters valuable information they do not now possess—and one cannot know too much in and about the poultry business.

Write today for this book. It will not cost you a cent, even for postage. Simply mail your name and address to one of the branches of the company (the one nearest to you); ask for the big book and mention the name of this paper. Address Cyphers Incubator Co., Buffalo, N. Y., Boston, Mass., New York City, Chicago, Ill., Kansas City, Mo., or Oakland, Cal.

INCUBATOR OIL

You can increase your hatch twenty-five per cent by using in your incubators

SOLINE OIL

No Smoke, no Odor, a perfect Oil, made from premium Pennsylvania Crude.

Orders filled from Knoxville and Chattanooga, Tenn., High Point and Greensboro, N. C., Baltimore and Cumberland, Md. Address

TENNESSEE OIL COMPANY,
K. & O. Ry. Knoxville, Tenn.

Extra Fine

Rhode Island
Red Pullets and
Cockerels For

Sale at reasonable prices. Also old stock

MISS ROSE WALLACE, Harriman, Tenn.



Walker's
WHITE ROCKS.
Fisher's Strain Direct.
Am booking orders for
eggs and can make prompt
delivery of breeding pens,
pullets and cockerels. Finest
stock I have ever raised.
Glad to answer inquiries.

C. M. WALKER,
Herndon, Va.

Pedigreed Dogs, all
breeds; Birds, Parrots,
Monkeys, Pigeons, Pet
Stock : : : : :

BELLEVUE POULTRY SUPPLY CO. Ltd.

740 Camp St., NEW ORLEANS, LA.

Incubators, Brooders, Feed, All Poultry Supplies

WRITE FOR CATALOGUE AND INFORMATION

A POULTRY BOOK

THAT TELLS YOU

HOW TO

Select the layers without trap nests (the only infallible method). How to produce two-pound broilers in eight weeks—get 200 eggs per hen per year, and make pullets lay at 5 months old—secure 90 per cent hatches with hens or incubators (no dead chicks in shell)—make the Nevitt Fireless Brooder in one hour for 50c and raise all the chickens hatched—make feed for 10c per bushelfor growing chicks and producing eggs. Our new copyrighted book, *The Nevitt System of Poultry Culture*, teaches this and covers all branches of profitable poultry work. Invaluable; nothing like it; Nevitt System being adopted everywhere; no failures. Circulars free. Send \$1 today. Money cheerfully refunded if you don't consider the information worth 100 times the price. Address

POULTRY PUBLISHING CO.,
312 Jackson St., Dallas, Texas

**S. C. BLACK MINORCAS**

Genuine Northup stock. Raised on free range and are strong and vigorous. Always win a majority of best prizes wherever and whenever shown. A choice lot of young stock and a few yearling hens for sale. Eggs for hatching at all seasons.

W. W. JENKINS
R.F.D. 3 BENTONVILLE, ARK.

DES-RENA POULTRY YARDS

Our prize winning ROYAL strain of Barred Plymouth Rocks and White Wyandottes, are the best. If you want good birds order from us. Book your orders for eggs early as we expect a heavy business in eggs this season.

DES-RENA POULTRY YARDS
GREENVILLE, S. C.

Frank M. deSaussure, President

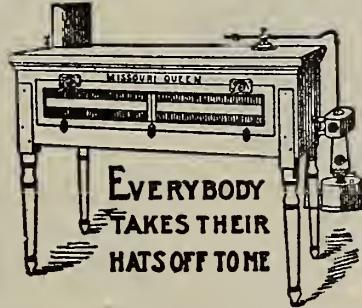
S. C. BUFF ORPINGTONS

I breed but one variety. In buying from me you run no risks in getting mixed stock. I guarantee a good hatch from eggs. Also guarantee birds I ship to satisfy my customers or same may be returned. Your inquiry or order will have prompt attention. Eggs \$2.00 per 15; \$10.00 per 100.

J. L. ALLEY,

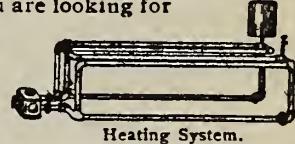
BOX 110,

MIDWAY, ALA.

**THE MISSOURI QUEEN INCUBATOR.**

I claim the only way to heat the corners of an Incubator is to place heat in them. Notice my system with pipe down each of the four corners. If you want the best Incubator in the world, send for my free catalog, which will tell you all about it. If you are looking for a "Cheap John Affair," Send to the other fellow. Address all letters to

W. P. SHEETS,
Dept. E. Princeton, Mo.

**SYDNOR'S
R. C. RHODE ISLAND REDS**

Won at State Fair, 1908, 1st, 2nd, 3rd Pen, 1st and 2nd Cockerel, 1st, 2nd, 3rd, 4th and 5th Pullet, 2nd Cock, 2nd, 4th and 5th Hen. Won at Va. Poultry Assn. Show, Dec., 1908, 2nd, and 3rd Pen, 1st, 3rd and 4th Cockerel, 1st, 2nd and 5th Pullet, 3rd Cock, 1st and 3rd Hen. All specials for shape and color and SILVER CUP FOR BEST DISPLAY. Write your wants to

W. D. SYDNOR, Barton Heights, Va.

S. C. Rhode I. Reds AND Barred P. Rocks

The best your money can buy; exhibition and utility stock that will please you; 1st prize winners at State and National Shows for past 10 years. Our winning at Cleveland, Ohio, Columbus, Ohio, Indianapolis, Cincinnati and Nashville, Tenn., is a record unequalled. Send for prices, we have the quality.

MILES POULTRY FARM, Columbus, Ohio.

OSCAR E. MILES, Owner, Licensed Judge American Class.

We buy and sell Fancy Poultry of all breeds. Carry a full line. Will take on consignment or buy outright : : :

Fruit and Produce News

This splendid weekly journal, published at Cincinnati at \$1 a year will be sent to any reader of THE HEN for 50c. or a year's subscription to both for 75c. Every poultryman and farmer should read this weekly. Send for a sample copy.

Black Patch Poultry Association

Will hold second annual meeting Jan. 29, Feb. 1, at Springfield, Tenn. Secretary Sanford McFerrin writes that this is practically a new territory for poultrymen and that the people are just awakening in enthusiasm to the call of the fancy.

Sydnor's R. C. Rhode Island Reds

W. D. Sydnor, Richmond, Va., has a fine string of R. C. R. I. Reds, as evidenced by his recent Virginia winnings. Besides numerous regular prizes, he got all specials for shape and color and silver cup for best display. See his ad. for further winnings.

Herman's Buff Rocks

At Charleston, S. C., where competition in Buff Plymouth Rocks was very strong, W. A. Herman, of Augusta, Ga., won 1 hen, 2-4 ckl, 3 ck, 4 pul, 2 pen, the \$10.00 Gold Special for best display, special for best colored male and special for best Buff Rock hen. Look up his ad. in this paper as Herman has some very fine Buff Rocks for sale and he will treat you right.

S. C. BUFF ORPINGTONS

Imported strain, rich golden buff throughout, up to weight. Mine are winter layers, and win the Blue. Eggs \$2.00 per 15. Stock a matter of correspondence.

MRS. LULA LAWSON
Route 4, Box 2, Cleveland, Tennessee

S. C. WHITE LEGHORNS

That have won highest honors at Cincinnati, Louisville, Lexington, Kentucky State Fair and Harrodsburg. Is it quality you want? If so write me.

W. E. GABHART, Box M, Bohon, Ky.

BLACK ORPINGTONS

The best layers of all the Orpingtons. My birds are bred for winter laying and have won in hot competition. 1908, at Johnson City, won all firsts. At Knoxville 1 ck, 1-2 hen. At Bristol, 1 ck, 1-2 ckl, 1-3-4 hen, 1 pen. Cup for highest scoring pen of all the Orpingtons; there were over 150. Eggs \$3.00 for 15. Birds for sale.

W. C. EVANS
217 Myrtle Ave., Johnson City, Tenn.



Latest Book "Profitable Poultry," Best illustrated Poultry book, describes, largest, most successful Poultry Farm in U. S., 45 VARIETIES, pure-bred Poultry, Beautiful, hardy and money makers. Thousands to choose from. Lowest prices on fowls, eggs, incubators, etc. Sent for 4 cents. Berry's Poultry Farm, Box 84 Clarinda, Ia.

**MOFFITT'S**

Perfection Ideal Aluminum Leg Band—12 for 12c; 25 for 20c; 50 for 40c; 100 for 65c. State variety bands are for Send two cents for sample. For Poultry and Pigeons.

J. MOFFITT, Southbridge, Mass.

BUFF WYANDOTTES

Are the BEST fowl on earth. Ask me
—WHY?—

At St. Louis, Nov. 1907, on three entries
I won 3 ribbons. Eggs \$2.00 per 15.

E. F. GILLETT, R. F. D. 3, Rockford, Ill.

S. C. RHODE ISLAND REDS, (DeGraff Strain.)

PURE WHITE WYANDOTTES (Fisher Strain.) Selected eggs best mating, Reds \$2.00 per 15. Good mating \$1.00. Incubator eggs \$4.00 per 100. Wyandottes \$1.50 per 15. 80 per cent. fertility insured. Well matured stock for sale. Farm raised and vigorous.

MRS. A. G. BOYLE, Bentonville, Ark.

Keep Chicks' Backs Warm

That's where the vital parts are located. That brings warmth and good feeling all over and makes strong, healthy chicks. The

MOTHER HEN Brooder

radiates heat from above like the hen does. Chicks cannot crowd. They breathe absolutely pure air always. Galvanized iron and lice-proof. No wood, no danger, no fumes. Brooder suspended any height, so it really mothers the chicks. Uniform hot water heating. Sent on 15 Days' Trial. Send for Catalog.

AUTOMATIC HATCHING CO.
32 State Street, Flint, Mich.

Columbian Wyandottes

Of merit. On five entries at Nashville State Fair won 1 pul, 2 pen. All stock sold on approval. Eggs \$3.00 per 15; \$5.00 per 30. Guarantee all eggs fertile.

J. W. BRINSER
Manchester, Virginia

**Barred Plymouth Rocks
(EXCLUSIVELY.)**

All surplus stock sold for this season. Now is the time to begin thinking about where to buy eggs for your early hatches.

EGGS, \$2.00 PER 15

from carefully selected stock. Satisfaction guaranteed.

CLARENCE YOUNG, Sweetwater, Tenn.

(S. C.) RHODE ISLAND REDS

Some choice breeding stock yet for sale at reasonable prices. 100 large early hatched Cockerels at \$2.00, \$3.50 and \$5.00 each. Trios and pens mated for best results, at from \$5.00 to \$15.00 each. Eggs for hatching from selected matings at \$2.00 per setting, or two settings for \$3.50. Incubator eggs are \$8.00 per hundred. Write your wants and ask for free booklet.

**LAKE MONT POULTRY FARM,
WARD & LANE, Proprietors. Box 57, Winter Park, Fla.**

BARRED PLYMOUTH ROCKS FOR SALE

To make room for hundreds of young chicks I am offering all of my breeding stock, consisting of 70 yearling hens and 7 cock birds at such low prices that any one wanting the best in the South can obtain them. Why send your money up North or East and pay four or five times as much for birds when you can get better here for so much less. My Rocks have an unbroken show record at the South's best shows.

I have never exhibited nor sold a bird for a show room that failed to win the blue ribbons.

This speaks as to quality. The stock I am offering are all high class birds. If you are interested don't delay but write today for prices and full description.

C. P. HALE, Barred Rock Specialist, R. 1, Sweetwater, Tenn.

SCOTCH COLLIE DOGS OF MOST UP-TO-DATE BREEDING



A Hale Winner

McCants Barred Rocks

At the recent Pickens, S. C., show, R. G. McCants, Ninety Six, S. C., won on Barred Rocks as follows: 1, 2, 3 pul; 1 pen; best pair. On S. C. Black Minorcas, 2 ckl; 2 hen. Mr. McCants writes that his business this fall has been good, that he has a few fine cockerels in Barred Rocks and Black Minorcas. His pens are mated with exceptionally fine birds for the spring trade. He gives the business his personal attention and says to that, with the publicity given him through THE HEN he attributes his success.

Bargains in 65 Varieties of Birds

G. E. Guovernator, Highland Park, Richmond, Va., who has been breeding sixty-five varieties of birds will only breed ten varieties in the future, and has some rare bargains for sale. At the Richmond, Va., State Fair show he entered 59 varieties, 312 entries and 422 birds. He won 137 1sts, 90 2nds, 69 3rds, 8 4ths, and 8 5ths, with a total of 312 premiums. In every pen he has winnings from leading shows. For descriptive catalogue send stamp for mailing. See his ad. in this issue.

"Poultry Secrets"—Good to Keep

A little book, good not only to read but to keep and to study, is "Poultry Secrets," published by Farm Journal, Philadelphia, Pa. It was written by Michael K. Boyer, one of the best poultrymen of this country and a special contributor to THE INDUSTRIOUS HEN. Mr. Boyer has collected here all the so-called secrets of his profession. They are not all strictly new or hitherto unknown and may be termed best principles of success in poultry culture. They cover the whole field of breeding, feeding, housing, eggs, markets, etc. We know of no abler and more instructive work in so small a compass.

FARM JOURNAL five years, THE INDUSTRIOUS HEN three years, and "Poultry Secrets," all for \$1.75.

"THE HEN is giving me entire satisfaction as an advertising medium."—H. R. Birchett, Lebanon, Tenn.

ROBINSON

Breeds White and Barred Rocks of the best strains.

**STOCK FOR SALE.
EGGS \$2.00 PER 15.**

**Address,
R. D. ROBINSON, White Hall, S. C.**

**SINGLE COMB
WHITE LECHORNS**

**H. WILBUR'S STRAIN
LINE BREED**

**The Leading Strain of Heavy Layers.
NONE BETTER, FEW AS GOOD.
Stock and Eggs for Sale.**

H. WILBUR, Charleston, S. C.

WHITE WYANDOTTES

WINTER EGG PRODUCERS

Eggs from Standard Bred, Fall Laying Business Birds, \$5.00 per 100. Correspondence Solicited.

**HAYSLAPE POULTRY FARM
H. G. ROGAN, Mgr. Russellville, Tennessee
Agent Cyphers Incubator Co.**

Buff Plymouth Rocks

Bred for Winter Eggs, size and color. 1,000 growing chicks. For sale, Cocks Hens, Cockerels, Pullets and Capons.

**Two Pound Chicks, 50c Each
AND UP****A. H. KIRK, Herndon, Va.**

Virginia Vice-Pres. Buff Rock Club.
Sec'y Herndon Poultry Show.

THE BEST FOWL**S. C. BUFF ORPININGTONS.**

The business fowl of the 20th century. Why? Because they begin to lay earlier, lay more eggs in winter, and mature quicker than any fowl in existence. The 1909 Catalogue of the Nat'l S. C. Buff Orpington Club tells why they are so popular and everyone discards other breeds for them. Contains over 100 pages, fully illustrated: also large size ideal cuts of these money-making fowls that have caused so much comment throughout the entire poultry world. Everyone interested in poultry should have a copy. Price only 10c while they last. WILL H. SCHADT, Sec'y., Goshen, Ind.

S.C. RHODE ISLAND REDS

Frankfort, K., Dec. 1908—1 Cock, 1 Cockerel and 3 Cockerel, 1, 2, 3, 5 Pullet, 1 Pen, 2 Pen. Also premiums at Louisville, Lexington, Harrodsburg, and Lebanon, Ky., Memphis and Knoxville, Tenn. Cockerels for sale \$2.50 up.

RED HEN POULTRY YARDS, L. B. Cook, Prop., Stanford, Ky.

McINNES'**Buff Rocks**

Have always won their share of the prizes when shown, because our foundation stock represents the best to be had regardless of price.

We are now ready to ship you eggs from pens mated to produce winners. Pen No. 1 is headed by the best Cockerel we have ever had mated to the grandest lot of females it has ever been our pleasure to pen. Eggs \$5.00 per 15; \$9.00 for 30.

Pen No. 2 headed by a grand male of the right type and color. We expect some great show birds from this mating also. EGGS \$2.00 PER FIFTEEN.

For full particulars address,

G. F., & B. K. McINNES, Charleston, S. C.

RHODE ISLAND REDS ROSE AND SINGLE COMB*** Largest Exclusive Breeders of Reds in the South.**

All birds standard bred, correct color, and shape. None but the best allowed to live. Eggs for hatching a specialty. List of winnings, with matings for 1908 free. Satisfaction guaranteed. Eggs from Prize Pens, \$2.00 per 15. Special prize matings \$3.00 per 15.

WEST DURHAM POULTRY FARM,

WEST DURHAM, N. C.

**BARRED PLYMOUTH ROCKS
SINGLE COMB RHODE ISLAND REDS**

SPECIAL FOR A QUICK BUYER: One breeding pen of S. C. Reds—4 Pullets and 1 Cockerel, good shape, good color and no smut—for \$15, worth double the money. First fifteen takes 'em.

DIXIE POULTRY FARM

G. C. WATKINS & SONS.

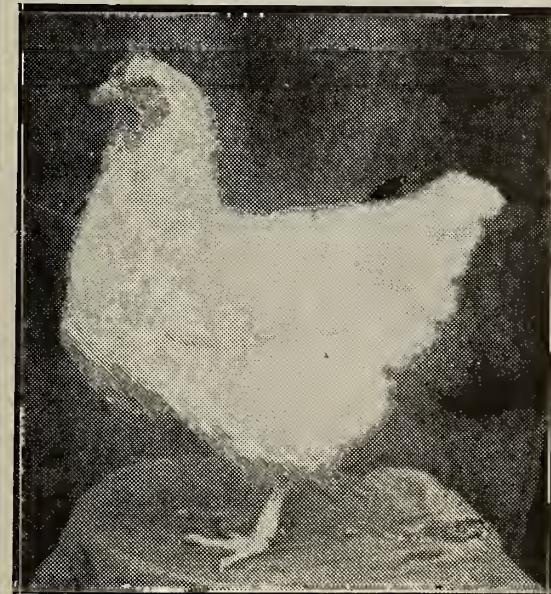
SILOAM SPRINGS, ARK.

NORTON'S**S.C. Rhode Island Reds
White and Barred Rocks**

Winners of 39 first and second prizes at this fall's leading shows, including Tenn. and Ala. State Fairs, winning at the latter on White Rocks every first and second and \$25.00 cup for best pen (any breed) in the entire show. I have two pens of each breed of my best birds from which I will sell a limited number of eggs at \$5.00 per 15; \$9.00 per 30, all other eggs \$2.00 per 15. All my pens are headed by prize winning males, and mated for best results. My eggs are carefully packed and will reach you safely anywhere, if you do not get a satisfactory hatch will duplicate order at half price.

J. O. NORTON

East Station, Nashville, Tenn.



First Pullet at Nashville, Tenn., Jan. 1907, Score 95 1/2

WINNINGS OF INDUSTRIOUS HEN ADVERTISERS

Show at Lebanon

Was large and enthusiastically attended. Some of the best birds shown this season were in evidence. Many were the bouquets thrown at the efficient management for its success. Following are the officers: J. W. Grigg, Pres., E. H. DePoy, V-p., D. T. Norman, Sec., D. Y. Conatser, Treas., R. H. Young, Supt. and J. C. Vaughan, Asst. Supt. A partial list of the winnings follow:

B. P. Rocks—J. O. Norton, 3 ckl, 3 pul, 4 hen; W. T. Shelton & Son, 4 ckl, 2,4 ckl, 3 pul; R. H. Young, 2 ckl, 1,3 ckl, 4 pul, 5 hen, 2 pen.

W. P. Rocks—J. O. Norton, 1 ckl, 2 ckl, 2,3 pul, 2 pen.

S. C. R. I. Reds—Jas. M. Frank, 4,5 ckl, 5 pul; J. O. Norton, 1 ckl, 1 ckl, 5 hen, 3,4 pul, 1 pen.

S. C. White Leghorns—H. R. Burchett, 1,2 hen, 2 ckl, 1 pen.

S. C. B. Minorcas—Fred E. Carter, 3 ckl, 3 ckl; J. C. Vaughan & Co., 1,2 ckl, 1,2 ckl, 1,2,3,4,5 pul, 1,2 pen.

W. F. B. Spanish, Blue Andalusians, S. S. Hamburg, Rouen Ducks—All to H. R. Burchett.

Mobile, Ala., Poultry Show

Attracted a great deal of attention and drew large crowds. A good exhibit of most excellent birds were cooped, and many were the surprises expressed at the quality of them. Alabama is becoming to be recognized as one of the best poultry states in the South, and well it should be. Among those of our advertisers who won prizes we note as follows:

S. C. R. I. Reds—C. M. Eady, Guntersville, Ala., 3 ckl; 2 ckl; 1, 2, 3, 4 pul.

B. P. Rocks—C. H. Dozier, Marion, Ala., 1, 2, 3 ckl; 2, 3, 4 hen; 1, 2, 3, 4 pul; 1, 2 pens.

Columbian Wyandottes—Sturtevant Bros., Kushla, Ala., 1, 2 ck, ckl, hen and pul; 1 pen.

White Wyandottes—Bruce Bros., Crescent, La., 1 ck, ckl, pul, and pen.

S. C. Brown Leghorns—Sturtevant Bros., Kushla, Ala., 1, 2 ck; 2, 3 ckl; 1 hen; 1, 2 pul; 1 pen.

S. C. White Leghorns—Bruce Bros., Crescent, La., 1, 3 ck; 1, 2 ckl; 1, 3 hen; 1, 2, 3 pul; 1 pen.

S. C. Black Minorcas—C. H. Ledford, Atlanta, Ga., 1 ck; 1 hen; 1 ckl; 1 pul.

S. C. Buff Orpingtons—J. L. Alley, Midway, Ala., 1 ckl; 1, 2, 3, pul.

Bristol Winnings

White Wyandottes—T. L. Bayne, 1 ck, 2-4 ckl, 3-4 hen, 1 pul, 3-4 pen.

Buff Wyandottes—W. G. Griffin, 1 ck, 1-2

VETERINARY COURSE AT HOME

\$1200 year and upwards can be made taking our Veterinary Course at home during spare time; taught in simplest English; Diploma granted positions obtained for successful students; cost within reach of all; satisfaction guaranteed; particulars free. Ontario Veterinary Correspondence School, London, Can.

S. C. BLACK MINORCAS

Central Carolina Fair, 1908, won: 2nd Cock, 1st and 2nd Hen, 2nd Pullet. Rhode Island Reds, Barred Rocks. Stock for sale \$1 to \$3. Satisfaction guaranteed.

B. C. ROUTH, RANDLEMAN, N. C.**THE OIL THAT'S RIGHT**

Is the only kind you should use in your incubators and brooders. Many chicks are killed by the deadly fumes from ill-smelling, gummed-up, smoky lamps.

WYANDOT WHITE OIL

is refined by special process, goes through the wick without clogging and burns with a steady flame preserving even temperature. Write for free circular and price.

THE WYANDOT REFINING CO.,
Dept. N., Cleveland, O.



ckl, 1-3-4 hen, 1-2-4 pul, 1-2-4 pen; cup for best display in American class, also National Buff Wyandotte Club Cup.

S. C. R. I. Reds—Sam M. Cooper, 4 ckl, 4 ckl, 2 hen, 2 pen; L. K. Terrell, 2 ck, 3 ckl, 2-3 pul, 1 pen; cup for best display of R. I. Reds.

Black Langshans—W. H. Cochrane, 1-2-4 ck, 1 ckl, 1-2-3 pul, 1-2 pen, 1-2-3-4 hen; IND. HEN Cup for best display in Asiatic class; also Cowan Cup for best pen; J. C. Adams, 3 ck, 2-3-4 ckl, 4 pul, 3-4 pen.

S. C. Buff Leghorns—Robt. P. Adams, 1 ck, 1 ckl, 1 hen, 2 pul, 1 pen.

S. C. Brown Leghorns—T. H. Boyd, 2 ck, 4 hen, 1-3 pul, 3 pen.

S. C. White Leghorns—J. F. Childress, 2-3-4 ckl, 1-2-3 hen, 1-4 pul, 1 pen; National S. C. White Leghorn Club Cup; A. J. Lawson, 4 ck, 4 hen, 4 pul.

Black Orpingtons—E. B. Irvin, 2 ckl, 2 hen, 1 pul, 2 pen.

S. C. Buff Orpingtons—Miss Nellie Cheaney, 4 ck, 4 ckl, 4 hen, 1 pul, 4 pen.

S. C. Black Minorcas—C. H. Ledford, 2-3 ck, 4 ckl, 1-4 hen, 3 pen; Fred E. Carter, 1-3 ckl, 2-3 hen, 1-2-4 pul, 1 pen.

R. C. Black Minorcas—J. O. Lewis, 1-2-3 hen, 1-2 pul, 1 pen, 1 ckl,

Anconas—L. M. Barrett, 1-2 ck, 1-2-3-4 pul, 1 pen.

Awards at Asheville, N. C.

B. P. Rocks—B. S. Davis, 2 ck, 2-4 hen, 3 ckl, 2-3 pul, 1 pen, sweepstakes cup for best display. B. F. Kelly, 1-3 hen, 1 pul. Clarence Young, 2 ck, 4 pul.

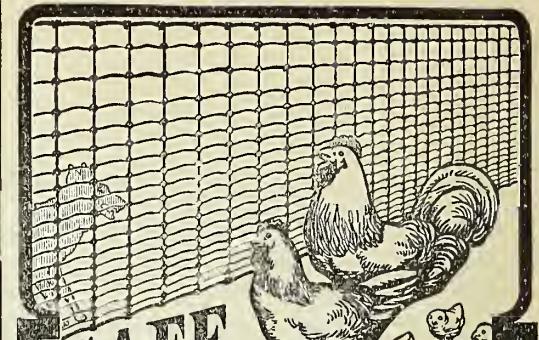
W. P. Rocks—Biltmore Farms, 2 ck, 2-3 hen, 1 ckl, 1-2-3-4 pul, 1-3 pen.

S. C. Black Minorcas—J. O. Lewis, 1 ck, 1-2 hen, 2 pul, 1 pen, sweepstakes cup for best display. C. H. Ledford, 3-4 ck, 3 hen, 4 ckl, 1-4 pul, 2 pen.

S. C. Brown Leghorns—Dr. H. T. Boyd, 4 ck, 1-2 ckl, 1 pen. E. E. Carter, 3 ck, 3 hen.

S. C. White Leghorns—Jno. F. Childress, 1-2-4 hen, 1-2-3 ckl, 2-3-4 pul, 1-2 pen, sweepstakes cup for best display.

S. C. Buff Leghorns—Mrs. C. B. Campbell, 2 ck, 1-2 hen, 1-2-3 ckl, 3 pul, (tie on 2-4



SAFE BROWN HEAVY WEIGHT POULTRY FENCE

Does Not cost one-half as much as the Common Chicken Netting, yet will last five times as long.

Size of Wires. The top and bottom wires are No. 9 gauge—same size as nearly all stock fences. Intermediate and stay wires in same proportion.

Quality of Wire. All material used in Brown Poultry Fence is best grade of High Carbon, Double Strength Spring Steel Wire. The galvanizing is the heaviest and best possible. All wire is subjected to careful inspection and acid tests before being made into fence.

Construction. Very closely woven, and a sure protection against marauding animals. Your poultry is safe from everything when enclosed with Brown Fence. Built of material heavy and strong enough for horses and cattle. Wires cannot possibly slip.

Saving in Cost. With a No. 9 top and bottom wire you can save at least one-half the posts, and besides you require no top railing or bottom boards. These items alone usually cost more than the fence.

Price. Our prices are less than common netting costs. WE PAY THE FREIGHT and guarantee safe delivery to your nearest railway station.

Guarantee. We guarantee every rod of our Poultry Fence. Every customer who buys this fence and does not find it entirely satisfactory and fully up to his expectations is at liberty to return the same at our expense.

Before buying Poultry Fence get our catalog and investigate the many superior qualities of our fencing. We have 150 styles of fencing—a fence for every purpose. Write today.

THE BROWN FENCE & WIRE CO.,
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GOLDEN WYANDOTTES

I have a few two and three year old females to dispose of in order to provide room for young stock. Write for prices

W. H. LORD, - - - Asheville, N. C.

S. C. RHODE ISLAND REDS

2nd Cockerel Tenn. State Fair; 2nd Cockerel Tenn. Valley Fair; 1st Pullet Tenn. Valley Fair; 2nd Pen Tenn. Valley Fair. Eggs from this Pen, \$3.00 per 15; utility Pen \$1.00 per 15.

GEO. W. WILKES,

HUNTSVILLE, ALA.

GOLDEN WYANDOTTES (EXCLUSIVELY)

I have one of the best strains of this excellent breed. At the 1908 Tenn. State Fair, in very hot competition, I won: 2nd Cock, 2nd Pullet, and 3rd Pen, and later at the Greater Nashville Pet Stock and Poultry Show, I won: 1st Hen, 2nd Cock, 2nd Cockerel, 2nd Pullet, 3rd Cockerel, 3rd Pullet, 4th Pullet, 5th Pullet, and 2nd Pen. All these birds are in my breeding Pens. Write me for prices on eggs and stock. Satisfaction guaranteed.

Member National Golden Wyandotte Club. **G. A. HARRISON**, Station B, Nashville, Tenn.

DeWITT (Strain) POULTRY FARM

SPECIAL SALE TO REDUCE THE NUMBER OF BREEDS

I offer for sale all my birds (including show winners) in the following varieties: ALL BREEDS: Rocks, Wyandottes, Rhode Island Reds, Brahmans, Cochins, Langshans, Leghorns, Minorcas, Spanish, Andalusians, Anconas, Red Caps, Orpingtons, Polish, Hamburgs, Houdans, Games, Sumatras, Frizzles, Bantams, Pheasants, Peafowls, Turkeys, Ducks, Geese, Pigeons and numerous other breeds.

In my pens you will find winners from all the leading shows.

COCKEREELS FROM \$2.00 UP IN ALL BREEDS**DeWITT POULTRY FARM**

G. E. GUVERNATOR, Prop. **Highland Park, RICHMOND, VA.**

LOOK FOR INCUBATOR LABEL

INSURABLE INCUBATORS

LAST MONTH

AND THE MONTH BEFORE we told the readers of this paper about the action of the NATIONAL BOARD OF FIRE UNDERWRITERS in adopting "RULES AND REQUIREMENTS" governing the construction of Insurable Incubators and Brooders, and announced that EVERY 1909 CYPHERS INCUBATOR will bear an "Inspected Incubator" label and EVERY CYPHERS 1909 STYLE BROODER an "Inspected Brooder" label, placed thereon UNDER THE DIRECTION of the National Board of Fire Underwriters. We also published the fact that the National Board of Fire Underwriters represents practically every old-line insurance company doing business in the United States and Canada.

JUST WHAT IT MEANS

INTENDING PURCHASERS of incubators and brooders may well ask themselves this question:—In view of EXISTING CONDITIONS in the fire insurance world, WHAT MUST BE THE LOGICAL RESULT of this action on the part of the Associated Fire Insurance Companies, AS AFFECTING the DIFFERENT MAKES of INCUBATORS AND BROODERS NOW ON THE MARKET?

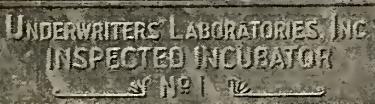
THE ANSWER IS NOT FAR TO SEEK!

EXISTING CONDITIONS

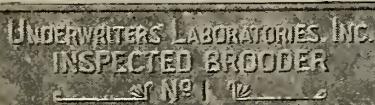
taken in connection with the recent action of the National Board of Fire Underwriters in adopting carefully formulated "Rules and Requirements" governing the construction and use of insurable incubators and brooders means simply this: That incubators and brooders,

IN ORDER TO BE INSURABLE,

MUST CONFORM to the "Rules and Requirements" of the National Board of Fire Underwriters, as recommended by its Committee of Consulting Engineers, and that property owners who buy incubators or brooders which DO NOT CONFORM to said rules cannot obtain or cannot afford fire insurance on buildings in which they are used, and the same is true of buildings and the contents thereof that are exposed by the use of such incubators and brooders in close proximity thereto.



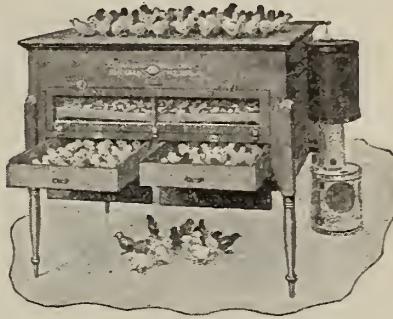
Form of Brass Label to be found (in Serial Numbers) on every 1909 Standard Cyphers Incubator, all sizes,



Form of Brass Label to be found (in Serial Numbers) on every 1909 Brooder of Cyphers Company's Manufacture.

CYPHERS INCUBATOR CO.

BRANCH HOUSES { 23 Barclay St., New York City; 72 E. Lake St., Chicago; 25 Union St., Boston; 2325 Broadway, Kansas City, Mo.; 1569 Broadway, Oakland, Cal.; 117 Finsbury Pavement, London, England



General View of Standard Cyphers Incubator 1909 Patteru, Equipped with Fire-Proof Heater, Fire-Proof Lamp and Fire-Proof Lamp Enclosure.

AVOID THIS MISTAKE:

Regardless of the unfavorable position in which many manufacturers now find themselves—temporarily at least—the undeniable fact is that the identical incubators and brooders they are now offering for sale will be TAKEN OFF THE MARKET within the next year or so by the manufacturers themselves, because it is certain that as soon as they are able to do it, they will RECONSTRUCT AND FIRE-PROOF their makes of incubators and brooders, in compliance with "Rules and Requirements" of Associated Fire Insurance Companies. POSITIVELY they will have to do this if THEIR CUSTOMERS are to be placed in a position where they can obtain or can afford fire insurance—and anyone who neglects these days to insure his property in some reliable company is taking greater chances of loss than a prudent person is willing to take. Clearly, therefore, it will be a mistake to buy this season a type or make of incubator which next season will be both uninsurable and out of date—made so by the manufacturer himself.

FOR COMPLETE CATALOGUE

Which tells the whole story—Address nearest office below:

FACTORY AND HOME OFFICES
BUFFALO, N. Y.

INSURABLE BROODERS

WINNINGS—Continued

pul) 1 pen, sweepstakes cup for best display. Columbian Wyandottes—H. E. Cain, 1-2-3-4 hen, 1-2 pul.

S. C. R. I. Reds—M. Jackson, 1 ckl, 1-2 hen, 2 ckl, 4 pul, 1 pen, sweepstakes cup for best display. J. M. Treatham, 1-2 pul.

Black Langshans—T. C. Adams, 1 ckl, 1-2 hen, 1-2 pul.

Light Brahmans—E. C. Simpson, all prizes. Golden Wyandottes—W. H. & Anthony Lord, 1 ck, 1-2-3 hen, 1-2-3-4 ckl, 1-2-3-4 pul, 1 pen.

Knoxville, 1908, Show Winnings

Barred P. Rocks—1,3,4 pul, 1,4 ckl, 4 hen, 1 pen, T. D. Smith; 2 pul, 3 hen, 4 ck, 1 pen, Valley View Poultry Yards; 2 ckl, Stuart & Luttrell; 1 ck, 2 ck, 3 ckl, 2 pen, R. H. Young; 1,2 hen, 3 ck, 3 pen, Jas. W. Gregg.

White P. Rocks—3 ckl, Flem Hazen, Jr., 1 ck, 2 hen, 1,2,4 ckl, 1,3 pul, Jos. Knott; 4 ckl, 1,3 pul, S. D. Wright; 1,2,4 hen, 4 ck, 2,3 pul, 2 pen, A. H. Gray; 3 ck, 3 pen, Valley View Poultry Yards; 2 ck, 1 pen, Mrs. J. R. Jarnagin.

S. L. Wyandottes—2 pul, 3,4 ckl, 3,4 hen, Dr. E. C. Hamilton; 2 hen, 3 pen, 4 ckl, Valley View Poultry Yards; 3 ck, 4 pul, C. M. Emory; 1 hen, 1,3 pul, 4 pen, Frank Hobach.

The KNOXVILLE STORAGE CO. SOLE AGENTS, 123 Jackson Avenue, KNOXVILLE, TENN. CARRY FULL LINE CYPHERS' INCUBATORS AND BROODERS.

Prospective buyers are invited to call or correspond. They can save you money and show goods before you buy.

"TWICKENHAM BUFFS" **"THE BEST IN DIXIE"**

SINGLE COMB BUFF ORPINGTONS

Pen No. 1—"King Edward,"—A Buff Orpington cockerel worth \$500.00, (Memphis Commercial Appeal.) He was sired by the greatest prize winning cock in England in 1907. Won 1st cockerel, Tri State Fair, Memphis, Tenn., 1908; also 1st cockerel, Tenn. Valley Fair, Huntsville, Ala., 1908.

True Orpington shape, fine eye, glorious in color.

Mated with "King Edward" are four wonderful pullets and three superior hens.

"Lady Luttrell," a granddaughter of "Champion of England" the most famous Orpington ever known. This pullet is a marvel in color, a really ideal bird.

"Countess of Kent," a pullet sired by the 1st prize cock at Madison Square Garden, 1907. The most delicate Buff ever seen in a Southern yard.

"Lady Huntington," another daughter of two 1st prize winners at Madison Square Garden. Very strong in color and shape. Eye and comb and style superb.

"Winnie Davis," a fine bodied pullet with clear wings and striking form, also a granddaughter of 1st prize winners, Madison Square Garden.

Three hens, from winners at Madison Square and Great Eastern shows. Hens won 1st, 2nd and 3rd hens at Tenn. Valley Fair, 1908.

THIS PEN CONTAINS THE FINEST BIRDS IN THE SOUTHERN STATES.

Eggs for sale. Prices reasonable. Fertility guaranteed.

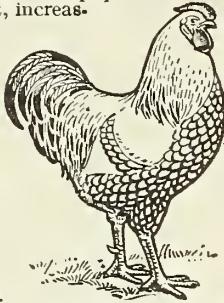
TWICKENHAM POULTRY YARD, HUNTSVILLE, ALA.

Greider's Book on Poultry

Illustrates 60 leading varieties; contains fifteen attractive chromos. Directions for care of fowls, building houses and equipment, increasing egg production, preventing disease, etc. Simple, concise, easily understood. All poultry supplies at reasonable prices. This valuable book, postpaid, 10c.

Greider's Germicide is a safe, certain cure for lice and other insect pests. Is also an excellent disinfectant—prevents spread of disease.

B. H. GREIDER, RHEEMS, PA.



SPRING GROVE POULTRY FARM R. C. RHODE ISLAND REDS

Prize winners Knoxville's four great Shows. Dec. 9-12, 1908, won 1-2-3-4 on pullet, 2nd on pen, 3rd on ckl, 1st on hen. Best matings \$3.00 per 15 eggs. Utility stock \$1.00 per 15 eggs, also settings of S. C. R. Island Reds \$1.00 per 15.

O. H. C. RODGERS, Route 6, Knoxville, Tenn.

FOR
WHITE ROCKS OF QUALITY
TRY
PAUL E. TROUCHE
CHARLESTON, S. C.
Eggs \$5, \$8 and \$10 per Setting.

BLACK ORPINGTONS EXCLUSIVELY

In the future Park Poultry Pens will be devoted exclusively to the raising of the Pelton Strain of Black Orpingtons. My flock consists of birds from my Champion pen, having never been beaten in a show. At Nashville I won 1 ck, 1 hen, 1 ckl, 1 pul, 1 pen, and silver cup for best pen in English class. My motto is "Quality." Have stock and eggs for sale. Write for description and price.

PARK POULTRY PENS
Miss Alice Pelton, Manager.

2209 14th Ave. N. Nashville, Tenn.

S. C. RHODE ISLAND REDS

RED KING and two pullets at Augusta won 1 ckl, 1 plt, 2 plt, and six special prizes including two silver cups and the grand gold medal and silver medals of the A. P. A. for best cockerel in standard varieties. Such winnings with these birds should commend the strain to those seeking the best. Stock all sold. Eggs in Jan. Catalogue.

J. S. WARD & SON,
Staion B, Route 9.
NASHVILLE, TENNESSEE

HARRINGTON'S S.C. BUFF ORPINGTONS

Winners at Nashville and other Poultry shows. 1st and 3rd ckl. Tenn. State Fair, 1906, winning Jan., '07, poultry show, Greater Nashville show, '08, 1st and 4th judged by J. H. Drenstedt. I have won four S. C. Buff Orpington Club specials best ck, ckl, and hens and two American Club specials on best ck and hen. One hundred high class exhibition and breeding birds for sale far below what you can obtain the same quality from other reliable breeders. We offer for sale a large number of choice pens at \$10.00 and \$15.00. Trios at \$8.00 and \$10.00. These birds we offer are all first class birds free from all Standard disqualifications properly mated and will produce a fine per cent. of exhibition birds.

DR. R. A. HARRINGTON, Nashville, Tenn.

WINNINGS—Continued

Golden Wyandottes—1 ck, 3,4 pul, Valley View Poultry Yards.

White Wyandottes—1,2 pul, 1,2,3 ckl, 2 hen, 2,4 pen, W. R. Teepell; 1 ck, 1 pen, 4 hen, Valley View Poultry Yards; 3 pul, 4 ckl, Mrs. J. R. Jarnagin; 1,3 hen 2 ck, 4 pul, 3 pen, J. S. Seagraves.

Partridge Wyandottes—1,2 pul, 2,3 hen, 4 ckl, 4 ckl, 1 pen, W. H. Brice; 2,3 ck, 3 ckl, 4 hen, 4 pen, Rex W. Sharp; 2 ckl, Hugh J. Jones; 1 ckl, 1 hen, 2,3 pul, 4 pen, Valley View Poultry Yards; 1 ck, 2 pen, J. C. White, Columbian Wyandottes—1 pul, 3 ckl, A. C. Snoddy; 3,4 hen, 3,4 pul, Valley View Poultry Yards.

S. C. R. I. Reds—2 ckl, 3 hen, 2,4 pul, 2 pen, Sam M. Cooper; 1,3 ckl, 1 pul, 2 hen, 1 pen, Callahan & Son; 4 ckl, Dr. E. C. Hamilton; 2,3 ck, 3 pen, T. E. McLean; 1 ck, W. P. Toole; 1,4 hen, 4 pen, Wade Hampton; 3 pul, J. C. White.

R. C. R. I. Reds—4 ckl, Mrs. S. A. Crawford; 1,2,3,4 pul, 1 hen, 3 ckl, 2 pen, O. H. C. Rodgers; 3 ck, J. R. McKinney; 3 pen, 2 hen, 2 ck, Wade Hampton.

Light Brahmans—1 ck, 2,3 hen, Valley View Poultry Yards.

Black Langshans—1 ck, 1 pen, 1 ckl, 1,2,3 pul, 2 hen, W. H. Cochrane; 1,3,4 hen, 2,3 ckl, 4 pul, 2 pen, T. C. Adams.

White Langshans—1 hen, 3,4 pul, Valley View Poultry Yards.

S. C. Brown Leghorns—3 ckl, 2 pul, S. S. Smith & Bros; 2 pen, 1,4 ckl, 3,4 hen, J. H. Henderson.

S. C. B. Leghorns—1 hen, 2 ckl, 1 pul, 1 pen, E. E. Carter; 2 ck, 2 hen, Jno. E. Jennings; 4 pul, H. T. Boyd; 1 ck, 3 pul, 4 pen, M. S. Copeland; 3 ck, Stuart & Luttrell.

S. C. W. Leghorns—2 hen, 2 pul, 4 pen, J. A. Wilson; 1 ck, 2,3,4 ckl, 4 pul, 2 pen, T. D. Smith; 3 ck, J. C. Crawford; 1 ckl, 1 hen, 1 pen, 2 ck, 3 pul, 4 hen, A. J. Lawson; 1 pul, 3 hen, 4 ck, 3 pen, J. A. Dinwiddie.

S. C. Buff Leghorns—2 ck, 3 ckl, 1,2,3 pul, 2 pen, Wood & Gilmore.

S. C. B. Minorcas—4 ck; 3 pen, C. H. Bedford; 3 ck, 1 hen, 2 pul, 2 pen, J. C. Vaughan & Co; 1,2 ck, 2,3,4 ckl, 1,3,4 pul, 2 hen, 1 pen, Fred E. Carter; 1 ckl, Joseph Henry; 3,4 hen, J. E. Gregg.

R. C. B. Minorcas—2,3 hen, Porter & George; 2 ckl, 1,2,3,4 pul, H. N. Camp.

S. C. W. Minorcas—3 ckl, 2 pen, 1,2,3,4 pul, W. B. Irwin.

Blue Andalusians—2 ck, 2 pul, S. E. Queener.

S. C. Buff Orpingtons—3 ck, W. B. Aiken; 3 hen, T. S. Woodruff; 1 pul, A. J. Lawson; 2,3 ckl, 3 pul, 2 pen, Geo. Shular; 2,4 hen, 4 ck, O. A. Muse; 1 ckl, Dr. E. C. Hamilton; 2,4 pul, 4 ckl, 3 pen, Robt. Askew.

Black Orpingtons—1 ck, 1,2 hen, W. C. Evans.

S. S. Hamburgs—1,2 ckl, 1,2,3,4 pul, Corum

Mend Your Own HARNESS

Put the money you would pay the repair man in your own pocket and use Myers Lock Stitch Awl instead. It stitches like a sewing machine and will mend harness, saddles, fur coats, robes, shoes, etc. Something you and your neighbors need every day and costs only \$1.00 prepaid. You can secure the agency in your locality and make money. One agent sold 100 in 4 days. Write for booklet 65.

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TRUAN'S S. C. WHITE LEGHORNS

The World's Greatest Egg Producers.

Two Choice Cockerels only for Sale.

Eggs \$2.00 for 15.

S. C. TRUAN, R. I., Fountain City, Tenn.

DOAK'S WHITE WYANDOTTES

BRED FOR BEAUTY
AND BUSINESS.

The "Foremost Strain" of the Southland in Quality and Winnings.

Investigate our claims. We satisfy the most exacting : : : : :

E. L. DOAK & SON,
NASHVILLE, TENN.

RINGLETS, ROCKS and REDS

A grand flock of fowls for sale at reasonable prices. Many of them are prize winners. Exhibition birds a specialty, bred for size and egg production. Can furnish large, early hatched cockerels and pullets to improve your flock of the following strains: Thompson's Ringlets, Latham and Well's Barred Rocks, Dutton's Wyandottes, Buff Rock Nuggets, Cook's Orpingtons, Tompkin's and Caswell's R. I. Reds, W. Leghorns, P. Wyandottes, Anconas, and Fishel's White Rocks. At Burlington and Greensboro, Oct., 1908, in a strong class, won over fifty prizes. Write for show record and prices. Eggs, special mating, \$1.50; best prize mating, \$2.00 and \$2.50. Orders solicited.

DR. JOHN W. LASLEY, - Burlington, N. C.

BOYD'S QUALITY S. C. BROWN LEGHORNS

Tenn. State Fair, Sept., 1908, 1st and 2nd Cocks; 1st Cockerel; 2nd Hen; 1st Pullet; 1st Pen and All Specials. Augusta, Ga., Nov., 1908, (Quality Show of South), 1st and 3d Cocks; 1st and 4th Cockerels; 3d and 4th Hens; 3d and 5th Pullets; 2d Pen and A.P.A. Medal and Diploma.

Only Limited Number Birds For Sale. Eggs in Season.

For Prices write **Dr. H. T. BOYD, Sweetwater, Tenn.**

WINNINGS—Continued

Bros; 3 ckl, J. A. Odell; 1,2,3,4 hen, Valley View Poultry Yards.

White Indians—1 ck, 3 ckl, 1 pul, 1,2,3 hen, 1 pen, Valley View Poultry Yards.

Cornish Indians—2,3 pul, W. K. McClure, Jr.; 2,3,4 ckl, 4 pul, 4 pen, J. A. Odell; 3 ck, 1,2 hen, 3 pen, Valley View Poultry Yards.

G. Seabright Bantams—3 ckl, 1,2,3,4 hen, 2 pen, F. B. Tomlinson.

White Tail Pigeons—Frank B. Tomlinson.

Pit Games—1 ckl, 3 ck, 1,2 hen, 2,3 pul, 1 pen, Luther Wright; 1 ck, Robt. Sammons; 2 ck, 2 ckl, Ole Bull Jones.

R. C. B. Bantams—1 ckl, 1 hen, 1,2,3 pul, 1 pen, J. C. Vaughan.

B. B. R. Game Bantams—1 ckl, 1 pul, 2,3,4 pul, 1 pen, Valley View Poultry Yards.

Black Cochinchin Bantams—1st ckl, W. B. Aiken.

Buff Cochinchin Bantams—1 ck, 1 hen, Miss Jennie Austin.

White Japanese Bantams—1 hen, Wood & Gilmore.

M. B. Turkeys—1 pul, 2 ck, 3 ckl, Mrs. R. B. Beeler; 1 ck, 4 pul, Mrs. J. N. Petre; 1 ckl, 1 hen, 3 pul, Mrs. W. J. Landess; 3 pul, Mrs. J. R. Jarnagin.

White Holland Turkeys—1 ck, R. L. Wallace.

Red Turkeys—1 ck, 1 hen, J. M. Pierce.

White Pekin Ducks—1,3 pair, Frank Stipe; 2 pair, Valley View Poultry Yards.

Indian Runner Ducks—1 pair, Miss Margaret J. Rodgers.

Emden Geese—1 pair, Valley View Poultry Yards.

Pheasants—pair Golden Pheasants, pair Silver, English Ring Necked, Lady Amherst, Green Japanese, White Guinea Chicks, Valley View Poultry Yards.

Buffalo, New York

The second annual show of the Buffalo Poultry, Pigeon and Pet Stock Association will be held at Convention Hall, Buffalo, N.Y., February 1st to 6th, 1909. Howard J. Young, Cor. Sec., 623 Elm St., Buffalo, N.Y.

**Standard-Bred Poultry Farms,
BURKE'S GARDEN, VA.**

Winning Stock from best strains possible, of the most popular breeds of chickens and turkeys. Eggs \$1.50 to \$5.00; Stock \$2.00 and up. + + + + + + + + + +

ONE HUNDRED TONS

A wonderful forage plant that will yield from one to two hundred tons per acre, per annum. Greatly relished by stock and poultry. Send \$1.00 for liberal quantity of seed and explicit instructions how to plant and grow.

WESTERN SEED CO., Box 326-C, San Rafael, Calif.

**WYANDOTTES
PEKIN DUCKS
AFRICAN GUINEAS
HOLLAND TURKEYS
TOULOUSE GEESE**

Winners at Madison Square, Jamestown Exposition, Philadelphia, State Fair, etc.

STOCK AND EGGS FOR SALE

Evelyn Heights Farm, W. W. Thomas, Prop., Callett, Va.

**Single Comb White Leghorns and
Single Comb White Orpingtons.**

We offer at great bargains high class birds in

"Wilber's World's Best"

SINGLE COMB WHITE LEGHORNS

—AND—

"Walker's Imperial"

SINGLE COMB WHITE ORPINGTONS

Write us your wants; we give you your mon-

ey's worth in each and every deal we make.

Quality counts. We have it. Give us an

order and let us prove it. We are sure to

please you. Eggs after January 1, 1909. Let

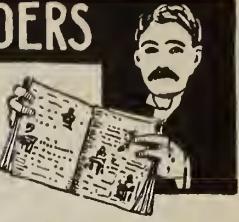
us book your order. Satisfaction guaranteed.

WABASH POULTRY YARDS

Box B. D. A. WALKER, Mgr., ARITON, ALA.

BUILD YOUR OWN INCUBATORS AND BROODERS**and Save One-Half the Purchase Price**

Anyone can do it with my Plans. I furnish the mechanical parts, Lamps, Regulators, Heaters, etc., at low prices. You simply make the box or case. Many thousands have done it and I have yet to learn of a single failure. For only 25c to cover cost, I will send you prepaid my big illustrated book of plans and catalog, worth dollars to you. These plans are so simple, the instructions so complete, it is impossible for you to go wrong. You save half the purchase price and get the advantage of my exclusive patented features not found on other machines. Most prominent among these are

**My Acme Tandem Thermostat and Acme Trip Burner,**

with combined damper and flame regulator—will save half the oil, labor and cost of operation.

These wonderful inventions are not to be found on any incubator you buy. I do not sell or build incubators—I only manufacture incubator supplies. I have been an incubator specialist for 20 years—the only one in the world. When you get my book you will see how easy it is for you to build a high-grade, practical Incubator or Brooder, having many exclusive features (all in favor of the inexperienced operator) which are not found on any other mako.

My New Acme Tandem Double-Compound Thermostat, the most powerful, accurate, durable and reliable thermostat ever invented, will increase the efficiency of any incubator or brooder—it marks a new era in artificial incubation, in heat regulation—it eliminates all regulation troubles.

TANDEM THERMOSTAT

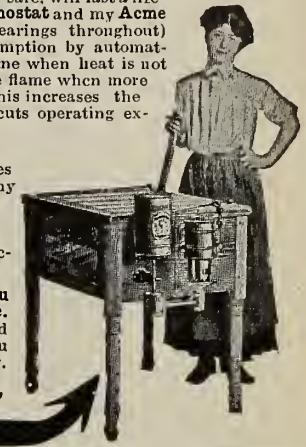
My Acme Lamp is the safest and surest known—can't upset—no danger of fire.

My Automatic Ventilation System insures a perfect hatch without an experienced operator.

ACME TRIP BURNER

than any other burner. The combustion is perfect. The wick never chars. Absolutely safe, will last a life-time, and with my **Tandem Thermostat** and my **Acme Regulator** (having knife-edge bearings throughout)

saves 50% in oil consumption by automatically lowering the flame when heat is not needed and raising the flame when more heat is required. This increases the hatch, saves time and worry, and cuts operating expenses in half.



My New Tubular Tank, with heat retaining and distributing bars, produces a uniform temperature throughout the egg chamber, using one-third less oil than any other system of heating.

If You Have an Incubator or Brooder

It will pay you to send for my plans and catalog, then at a slight expense you can remodel your old machine and make it a profitable and permanent investment.

Write today and let me tell you all about my **Lampless Brooder** which costs you less than \$4 to build. No lamp—no tank—no expense to operate. You cannot lose. If you are not satisfied after you have looked over the book of plans, send it back and I'll return your money and postage. If you keep the plans and catalog, I'll allow you 25c on your first order. You have all to gain and nothing to lose—send for book today.

H. M. SHEER, 420 Hampshire Street, Quincy, Ill.

INDIAN STRAIN**ROSE COMB RHODE ISLAND REDS** Exclusively

My stock originated from 1st prize winners at Lynn, Mass., and Indianapolis, Ind. Have never failed to win with the hottest competition at all of the large shows. Write for matings, pen lists and prices. Satisfaction guaranteed.

E. W. ALLEN, WEST NASHVILLE, TENN.

WHITE PLUME POULTRY FARM

Without a doubt have **WHITE P. ROCKS** with quality unapproached. Their winnings of 1st ck, 1st and 3rd hen, 1st and 2nd pullet and 1st pen on seven entries at the big Salem, Ind., show Dec. 07, in company with the best in the land certainly proves their superiority. Exhibition birds and choice breeders at prices that will move them. Eggs by setting or hundred. Satisfaction guaranteed.

BATT & WEAVER, Box H, Campbellsburg, Ind.

BELLEVUE POULTRY and STOCK FARM

BREEDERS OF POULTRY AND PET STOCK.

EXHIBITION AND UTILITY STOCK AND EGGS ALWAYS ON HAND.

WE OWN AS STUD THE FAMOUS CHEYENNE ROCKS

AND A. K. C. No. 106912

Our Motto:—"NONE BUT THE BEST"

C. L. MONNOT, Prop.

Jeanerette, La.

ANOTHER GREAT VICTORY

Nashville, Tenn., December 8-12, 1908

Rion's White Wyandottes

Won every first in as hot a class as ever graced a show room. Our winnings were 1st ckl, 1st pul, 1-3 ck, 1-4 hen, 1st exhibition pen, 1st W. W. breeding pen. Grand \$100.00 cup for best display QUALITY alone considered. Silver cup for best pen in American Class. INDUSTRIOUS HEN Cup for best cock, hen, cockerel and pullet. Send for 1909 mating list and prices on stock and eggs for hatching.

Fount H. Rion,

1412
Eastland Avenue

Nashville, Tenn.

Scored White Rocks

Allen Chastain, of Saltillo, Ind., is offering some real bargains in scored White P. Rock cockerels and Pekin Ducks. The writer knows this gentleman personally and knows him to be honorable in all his dealings. He is one of those true citizens that believe than only the best is good enough. He is offering the best lot of stock for the money of any breeder to our knowledge. His White Rocks are that long typical rock shape and pure white. Just the kind all White Rock breeders want. See his advertisement elsewhere and write him.

Wall's R. I. Reds

The Walls Poultry Farm, Mitchell, Ind., is rapidly coming to the front as one of America's leading poultry plants. Here are grown some of the choicest S. C. R. I. Reds of the country. Their yards contain birds that were winners at such leading shows as Cleveland, Ohio, 1908; Columbus, Ohio, and Orleans, Ind., and will be heard from at the coming winter shows. A representative of THE HEN had the pleasure of visiting this plant personally a few days ago and found some of the quality the majority of Red breeders want. They have a choice selection of cockerels and pullets to offer the trade and we assure our readers that if they place their orders in this firm's hands they will receive the very best of treatment. This firm is composed of men who are honorable, honest and pains taking breeders. By their courteous treatment they are building up a reputation that will follow them long after they have passed to their eternal reward. See their advertisement in this issue and write them.—J. C. C.

Coffee County Poultry Show

At Manchester, Tenn., was an unusual success, not for that county, but as poultry shows go. No pains or ability was spared and quantity and quality was pre-eminent. The Association as well as exhibitors were fortunate in having at its head such gentlemen as President Lansden, Secretary Vaughan, Manager Straight and Judge Marshall. The Times published a full list of the rewards, and in speaking of judge Marshall said:

His scoring was eagerly watched by interested spectators and the Judge was always ready to answer questions in regard to the scoring, thus making this feature of the show a kind of institute. Judge Marshall was lavish in his praise of the quality of birds exhibited and pronounced some of them the best he had ever seen—notably a golden wyandotte exhibited by A. A. Straight, owner and proprietor of the Highland Poultry Yards two miles north of town.

**EGGS FOR HATCHING
AND STOCK IN SEASON**

From Prize Winners. Eggs \$1.50 and \$1.00. S. C. Mottled Anconas, Rhode Island Reds, Barred Rocks, Brown Leghorns, Toulouse Goose Eggs, 30 cts. each.

L. M. BARRETT, Morristown, Tenn.

**24 LEGBANDS FREE
MAKE YOUR HENS PAY**

We send free 24 of the best Leg Bands made to every new and

25

PAT. APPLIED FOR

renewing subscriber to THE INDUSTRIOS HEN at 50c. 36 Bands will be sent with a three years subscription for \$1.00. If you are already a subscriber you may renew; or if you will get your neighbor to send 50c. for his subscription, we will send a dozen Leg Bands to each. Enclose money order or stamps to

**The Industrious Hen Co.,
KNOXVILLE, TENN.**

**LANSDEN'S R. I. REDS
AGAIN VICTORIOUS**

Tennessee State Fair pronounced by such Judges as Pierce and Drennenstedt to be the strongest collection of Reds ever handled by them, competing against the largest and most noted breeders, East, North and South. We win 1st, 2nd and 3rd pullets, 2nd cock, 2nd cockerel, 2nd hen. Fifty dollar challenge cup for best pen in show, any variety; cup for 10 best pullets; \$25 in gold, special, for best pen. We have sold more prize winners for county fairs and shows than any other breeder. We have the type and color to back. + + + + + + + + + +

H. B. LANSDEN & SON, Manchester, Tenn.

The Famous Barred Plymouth Rocks

Made Famous by Winnings at the Leading Shows and the Laying Habit which has been fixed by them by use of Trap Nests.

WINNINGS AT SEVEN OF THE LARGEST SHOWS IN THE SOUTH.

Nashville, Tenn., 3rd pen, 3rd ckr, 3rd pullet, 2nd cock.

Memphis, Tenn., 1st and 2nd pen; 1st and 2nd cock; 1st and 2d hen; 1st and 2d ckr; 1st, 2d, 3d plt; 2 specials.

Birmingham, Ala., 1st and 2nd pen; 2nd and 3rd cock; 1st and 2nd ckr; 1st hen; 1st, 2nd, 3rd pullet; 2 specials.

Minden, La., 1st pen; 1st and 2nd ckr; 1st and 2nd pul.

Jackson, Miss., 1st and 2nd pen; 1st and 2nd cock; 1st, 3rd and 4th hen; 3rd pul.; 2nd and 3rd ckr; 2 specials.

Monroe, La., 1st pen; 1st and 3rd cock; 2nd hen; 1st, 2nd and third pullet; 2 specials.

Mobile, Ala., 1st and 2nd pen; 2nd and 3rd hen; 1st, 2nd, 3rd ckr; 1st, 2nd, 3rd and 4th pullet.

21 1st; 21 2nd; 14 3rd and 1 4th

STOCK AND EGGS FOR SALE; Write for Mating List.

C. H. DOZIER, Marion, Ala.

**WALKER'S
Barred Rocks and White Wyandottes**

Win wherever shown. Winning first honors at Knoxville, Sweetwater and Madisonville, Tenn.

Our birds are farm-raised. Send us your order and start right

—STOCK AND EGGS FOR SALE.—

WALKER BROS., R. I., Madisonville, Tenn.

BOSWELL'S ACME WHITE WYANDOTTES

"THE QUALITY LAYERS."

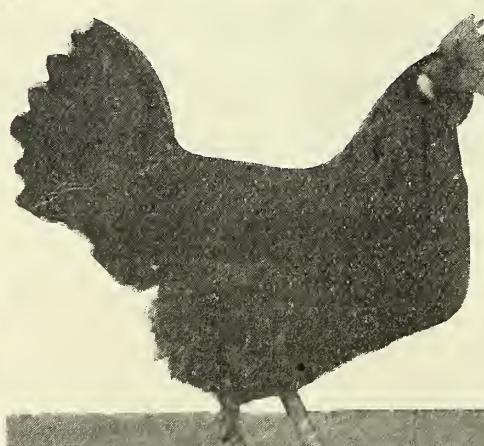
They have won the blue for years in the chief shows of the United States. They have this year won grand sweepstakes in shows where Madison Square Garden winners were entered. No bird that I have sold for exhibition this season has failed to win a prize—and I have sold many. I have eight grand yards mated, from which to sell eggs for hatching. There are no better WHITE WYANDOTTES in the world—male or female—than the breeders contained in these yards. They are the result of fifteen years of close line-breeding and individual care.

**THE ACME WHITE WYANDOTTES ARE BRED
FOR MERIT AND ARE SOLD ON HONOR.**

JOHN W. BOSWELL, JR.,

Box 2006,

BECKWITH, TENN.



EVERLAY BROWN LEGHORN HEN
WINNER AT CHICAGO '08

**TORMOHLEN'S "EVER-LAY" STRAIN OF
Single Comb Brown Leghorns**

The leading strain of heavy layers. Chicago, and bred from Chicago winners. Males with strongly striped hackles and saddles; Females with fine penciling and even color that win everywhere

Address **H. V. TORMOHLEN,**

(Yards now located 142 Hoeggen St.,
at Portland, Ind.) INDIANAPOLIS, IND.

A New Poultry Work

Progressive Poultry Culture, by Arthur A. Bingham, B. S., Ph. D., is published by the Torch Press of Cedar Rapids, Iowa, and is the most thorough work on the entire poultry business that it has been our pleasure to examine. The book covers every feature of poultry culture and is a most essential manual to the poultryman whether for commercial or fancy purposes. The treatise is both scientific and practical. Everything is stated in a lucid and edifying manner. All first-class poultrymen should have this book. Price \$1.50.

A Handy Tool

Mr. C. A. Myers, of the C. A. Myers Company, Woodlawn Ave., Chicago, called the editor's attention to his Lock Stitch Sewing Awl which we think is a big money and time-saver for farmers. It's wonderful simplicity—strength and utility—combined with its exceedingly small cost makes it a most profitable instrument. It is indispensable—once you use it for sewing harness, belts and all other leather goods, besides carpets, awning, sails, firs and in fact anything that you want sewed to stay sewed. Even if it only saves you one trip to town, it has paid for itself—for it costs only \$1 prepaid. You will think it a dollar well spent. If you want to find out more about this money-making awl, write to Mr. Myers personally, at address given above.

National White Wyandotte Club

The State Cups will be offered at the following shows. Medals at all shows making application:

Connecticut at Meriden, Dec. 29th-Jan. 1st.
Illinois at Chicago, Dec. 15-19.
Indiana at Indianapolis, Feb. 1-5.
Kansas at Newton, Jan. 4-9.
Kentucky at Frankfort, Dec. 1-5.
Massachusetts at Boston, Jan. 12-16.
Michigan at Grand Rapids, Jan. 29-Feb. 3.
Missouri at Trenton, Dec. 8-12.
New Jersey at Orange, Feb. 10-12.
New York at Utica; Dec. 14-18.
Ohio at Toledo, Jan. 19-25.
Oregon at Portland, Jan. 13-19.
Pennsylvania at Philadelphia, Jan. 19-23.
South Carolina at Greenville, Jan. 12-15.
Texas at Dallas, Jan. 5-8.
Utah at Salt Lake City, Jan. 24-27.
Wisconsin at Milwaukee, Jan. 12-17.
Vermont at St. Albans, Jan. 19-22.
Virginia at Richmond, Dec. 7-12.

A special meeting of the National White Wyandotte Club will be held in connection with the Philadelphia, Pa., show Jan. 9-23, exact day and hour to be announced later. Chas. D. Cleveland, Pres. F. S. Hawn, Secy-

**Silver Spangled Hamburgs
PRIZE WINNERS!**

The most beautiful breed known to the fancy and excelled by no other breed for eggs. Winnings at the great Knoxville, Tennessee, Poultry Show, December 9 to 12, 1908, (Marshall, Judge): 1st and 2nd cockerel; 1st, 2nd, 3d and 4th pullet. Prices: Cocks and cockerels \$2.50 and up. Eggs from our best matings \$1.50 per 15; \$1.00 per 30. Write us your wants. A square deal to all.

CORUM BROS.
Route 6, Box 13, RUTLEDGE, TENN.

**BROWN LEGHORNS
FOR SALE!**

Yearling Cocks and
Hens, Cockerels
and Pullets

Will make good
breeders. Prices
interesting. Call
for free circular
and get full par-
ticulars of show
records and mat-
tings.

M. S. Copeland, R. I., Powell Sta. Tenn.

**THE RED APPLE
REAL ESTATE CO.**

WENATCHEE, WASH.

Will place you on the

Richest Irrigated Fruit Lands

That will pay the largest profits per capital invested of any land on earth.

At the Lewis and Clark, and Portland Expositions, 1905, fruit from the Wenatchee Valley received 35 of the 85 gold medals awarded, besides 68 bronze and 20 silver medals.

At the Interstate Fair, Spokane, Wash., October, 1908, Wenatchee Valley received the two highest awards offered by the Interstate Fair.

COME AND SEE FOR YOURSELF.

We can show you the

Finest Homes on Earth

At the Lowest Possible Price.

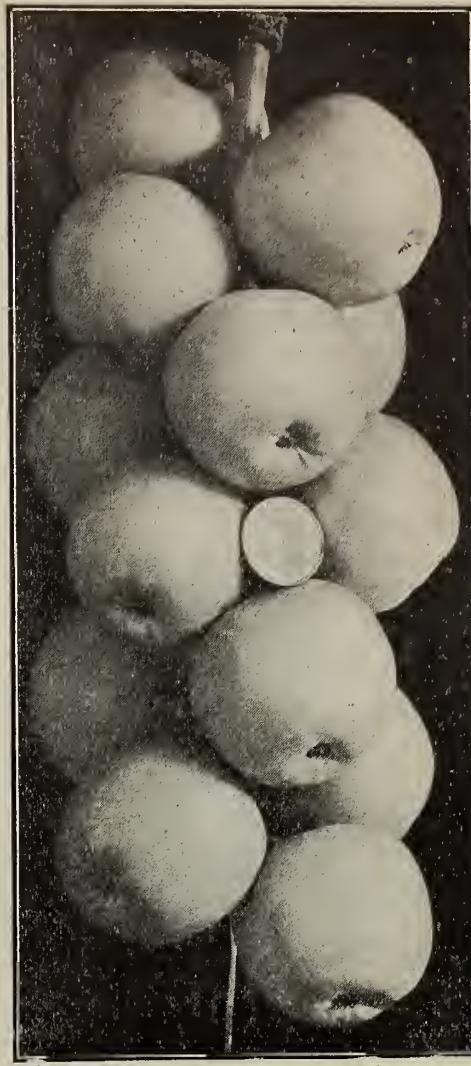
References: Associate editor this paper, J. C. Clipp, of Saltillo, Ind.; First National Bank, Wenatchee, Wash.

Write for literature.

The Red Apple Real Estate Co.

A. J. LINVILLE, Mgr.

WENATCHEE, WASH.



Grown by Wm. Turner, Wenatchee, Wash. Variety, Winter Banana, 13 1-2 inches long. 13 Apples, weight, 8 1-4 lbs. Age of tree, 6 years old.

Improving on Nature

Mr. Sheer, Quincy, Ill., incubator specialist for 20 years, has published a book of simple and explicit plans, showing how to build a thoroughly practical and labor-saving incubator and brooder, besides telling many interesting and instructive things about them. In addition to the plans and instructions, the book contains illustrations and descriptions of numerous effective attachments which Mr. Sheer has invented for improving on Nature's way of hatching chickens. While the value of this book cannot be reckoned in dollars and cents, all that he is asking for it is 25c.—to our mind a small price for such a valuable aid to chicken raisers. Mr. Sheer offers to return the money to any one who sends 25c. for the book and is not thoroughly satisfied; further, he allows any purchaser of the book to deduct the 25c. from the first bill of supplies they order. Thousands of the most successful poultrymen in the country have built their incubators according to Mr. Sheer's plans, and we believe it will more than pay those of our readers who are interested in chicken-raising to obtain this book.

S. C.

Rhode Island Reds

1st pullet, 2nd pen, 3rd cockerel, also color special Greater Nashville Show, Dec. 1908. Many other records. Eggs and stock for sale. Write.

ROSEBANK POULTRY FARM
F. G. DAVIS
Rosebank Ave. Nashville, Tenn.

S. C. Brown Leghorns and Columbian Wyandottes

Winners of the Blue in Four States and 3 Cups this Season.

We win on Columbian Wyandottes. Nashville, 1st ck., 1st hen; 1st, 3rd ckl.; and 1st pen. At Jackson, Miss., 1st, 2nd ck.; 1st 2nd hen; 1st, 2nd ckl.; 1st, 2nd pul; 1st pen. At Augusta, Ga., held on same dates as Jackson, 1st, 3d ck; 4th hen; 1st pul; 4th pen. At Mobile, Ala., 1st, 2d ck; 1st, 2d hen; 1st, 2d ckl; 1st, 2d pul; 1st pen.

On S. C. Brown Leghorns, Nashville, 3rd ck.; 3rd pen. At Jackson, Miss., 1st, 2nd ck.; 1st, 2nd hen; 3rd, 4th ckl.; 1st, 2nd pullet; 1st pen. At Augusta, Ga., (held on same dates as Jackson) 4th ck.; 1st, 2d hen; 3d ckl; 1st, 2d pul; 1st pen and cup for best display. At Mobile, Ala., 1st, 2d ck; 1st hen; 2d, 3d ckl; 1st, 2d pul; 1st pen and cup for best pullet in show.

STURTEVANT BROS., Kushla, Ala.

Correspondence solicited.



"Mandy Lee" Incubators and Brooders

WE want every actual or prospective operator of an incubator, every poultryman who is interested in learning how to secure the biggest hatches of strong healthy chicks, to have a copy of our 1909 Catalog and our new booklet "Incubator Hygrometry." They won't cost you a cent and you'll get dollars worth of new ideas from them—information that is good, whether you use our machines or not,—the result of more than 20 years' actual experience with poultry.

We want to tell you of our method of regulation and control of the three things necessary to insure a successful hatch—heat, ventilation and moisture—not one, but all of them. (No other manufacturer even claims that his machine regulates anything but heat unless you buy extras.)

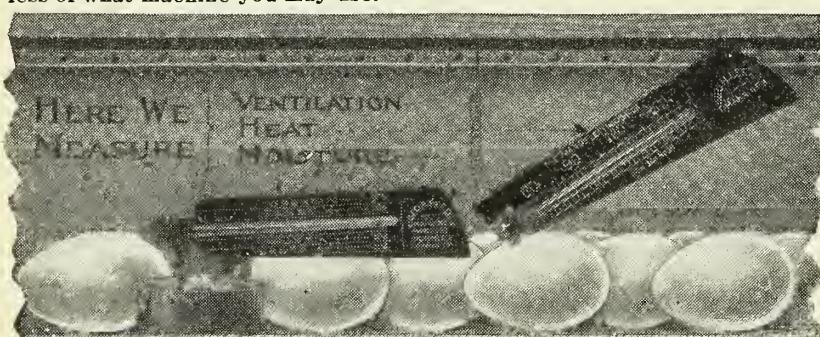
We want to show you the difference between guesswork and certainty of results in incubator work.

If you're an old hand at the business you know what this means. If you are a beginner, you will make a big mistake if you buy other incubators and brooders before investigating ours.

We have the only incubator in which favorable hatching conditions can always be made at the eggs regardless of how unfavorable the conditions may be outside of the machine; the only one in which the hatching process is always a certainty.

Ours are the only brooders—either fireless or lamp-heated—that furnish direct contact heat to the backs of chicks, and with the proper method of ventilation.

Send for Catalog today. You need the information it contains regardless of what machine you may use.



A "look inside"—showing Hygrometer, Thermometer and perforated tube ventilators.

Lee Fireless Brooders

are an absolute success outdoors in any situation warmer than 18 deg. above zero; always preferable to lamp-heated brooders for indoor use. Perfect ventilation; no dirty, smoky lamps; no danger from fires. Better and stronger chicks. Send for catalog. Address

GEO. H. LEE CO., 1136 Harney St., Omaha, Neb.



GENERAL AGENTS

BOSTON, MASS.—Fiske Seed Co.
PHILADELPHIA, PA.—Geo. H. Lee Co.,
45 N. 13th St.
TAMPA, FLA.—Crenshaw Bros. Seed Co.
SALT LAKE CITY, UTAH.—Porter-Walton Co.
DALLAS, TEX.—Robinson Plant and Seed Co.
LOS ANGELES, CAL.—Henry Albers Co.
PORTLAND, ORE.—Portland Seed Co.

See that
HEATER

Just Three Things

are required to make 90 per cent to 100 per cent hatches every time and in any season, climate, or altitude: 1st correct heat; 2d correct moisture; 3d correct ventilation. In other incubators it's mostly guesswork; in the Mandy Lee it's a scientific certainty. In other incubators hatching conditions are right if you guess right; in the Mandy Lee they are right if you follow simple instructions.

Correct Heat means 103 degrees at the upper surface of each egg and every egg, gradually increasing to 105 degrees during the last week. Measured accurately with a Mandy Lee Thermometer, distributed by our patent perforated-tube system, and easily regulated within a variation of one half degree. Most other incubators vary from 2 to 5 degrees.

Correct Moisture means 65 per cent at commencement of incubation, gradually decreasing to 50 per cent during 3d week. Measured accurately with a Mandy Lee Hygrometer, the only instrument suited to incubator work, and regulated within a variation of 2 or 3 per cent. Most other incubators vary from 20 to 50 per cent and with no measurement or regulation.

Correct Ventilation means a gradual change of air in the egg-chamber once every half hour. Automatically regulated by simple adjustment of damper on heater. Some other incubators give a change of air every 5 minutes, causing a rapid draft; others change the air only once in 24 hours, with result that the air becomes foul or stagnant.

THE NEW BREED—

Buttercups

RECORD—300 EGGS PER YEAR

CIRCULARS AND PRICES SENT WITH PLEASURE

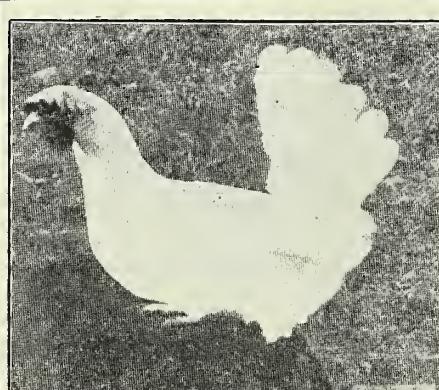
J. S. DUMARESQ
(CATO'S HALL)

EASTON, MD.

HOUDANS

OF QUALITY—Winners of the Blue at America's Greatest Shows. The best Winter layers of the poultry tribe. Large white eggs. 1909 mating list now ready. Guaranteed fertile eggs now. Some grand cockerels yet for sale.

DR. G. W. TAYLOR, Box H, ORLEANS, IND.



One of My Prize Winning White Leghorns

SPRING HILL LEGHORNS

I have a nice lot of young and old stock for sale. Well-bred, vigorous, the right size, true Leghorn shape, and pure white. Bred from prize winners—they will win for you. Prices according to quality, but always reasonable. I also have a few

GOOD ROSE COMB R. I. REDS.

Write for Circular and Prices.

F. J. HEACOCK, R. 2 Salem, Ind.

Secretary Washington County Poultry Assn.

The Asheville Poultry Show

Was a success, numerically and qualitatively. Although its second show, there were 600 to 800 on exhibition; some of them among the very best of their several classes in the South.

John F. Childress, of Sweetwater, Tenn., was there with his now noted strain of S. C. White Leghorns, and beside winning several blues, also carried away THE INDUSTRIOS HEN's silver loving cup for highest scoring pen in the show of any variety.

Harry Cain, of Asheville, "swept the deck" with his excellent Columbian Wyandottes, winning almost everything offered in his class.

W. H. Lord's Golden Wyandottes were beauties and much admired.

J. C. Adams, of Bristol, won everything in sight on Black Langshans.

Swift & Simpson, of Waynesville, N. C., had fine pens of White Wyandottes and E. C. Simpson Waynesville, exhibited most excellent Light Brahma and took all blues. The Barred Rock exhibition was a fine one, B. S. Davis, of Charlotte, N. C., winning most of the prizes offered in this popular class. The S. C. Rhode Island Reds were well represented. The ribbons in this class being very well distributed with M. Jackson, of Johnson City, leading with three first prizes, sweepstakes cup and cup for highest scoring male in the show. J. M. Tranham, of Russellville, Tenn., a newcomer, on an entry of two birds won first and second pullets; these birds were raised by him and are fine ones.

The biggest exhibit and hottest contest was the ever popular S. C. Brown Leghorn class, there being nearly 100 birds entered. These included birds of such noted breeders and exhibitors as E. E. Carter, of Knoxville, Dr. H. T. Boyd, of Sweetwater, and John P. Greene, of Charlotte. However, the most of the best prizes went to Luke Dixon and R. F. Longbottom, of Asheville; this firm winning first cock, first hen, 3rd hen (tie) 3rd and 4th cockerel, 2nd pullet (tie), 3rd pullet and 2nd pen. They also won cup for highest scoring hen in the show (score 94 3-4), silver cup for best cockerel. American Club cup for highest scoring cock, hen, cockerel and pullet, and the John P. Green silver cup for the same, exhibited by a North Carolina breeder and exhibitor. Dr. H. T. Boyd won silver cup for highest scoring cockerel in show, also \$10 violin for 2nd highest scoring pen in show. Club specials for best pen, and best cockerel, R. L. Longbottom, Asheville, Silver cup for highest scoring hen in show, also special for third highest scoring pen; Club cup and the Jno. P. Greene cup for best display; Club special for best hen and cock. Jno. P. Greene, Charlotte, N. C., won the "Mrs. C. B. Campbell Cup" for largest display outside of Buncombe Co. Of White Rocks, Biltmore Farms had a much admired exhibit which took three first prizes. Black Minorcas, a splendid class, showed J. O. Lewis, of Johnson City, and C. H. Ledford, of Atlanta, Ga., winning the majority of prizes.

Mrs. C. B. Campbell won most of the best ribbons and prizes on S. C. Buff Leghorns, stock from eggs from her pen taking the remainder.

Judge F. J. Marshall, one of the most popular of judges, scored the fowls, and gave universal satisfaction. He is evidently a clean and correct expert. The Association is to be congratulated on having the services of such an energetic, efficient Secretary as Mrs. Campbell, ably assisted by Messrs. Lord and Cain. The attendance was not so large as last year, doubtless due to the increased price of admission. With both the entry and admission prices reduced for next year, the exhibition will doubtless prove a better financial success than this one.

LEARN VETERINARY DENTISTRY
and **\$2000** a year. We teach you at home in
make **three months** of your spare time
by illustrated lectures and grant diploma with degree.
Particulars Free. Detroit Veterinary Dental
College - Detroit, Mich.

**High Scoring White Indians
FOR SALE**

Table fowls. The birds that fill the egg basket the year 'round. My price for the present is \$1.50 each, and I also have S. C. Brown Leghorns at \$1.00 each. First come first served.

J. W. LANEY
MONROE, NORTH CAROLINA

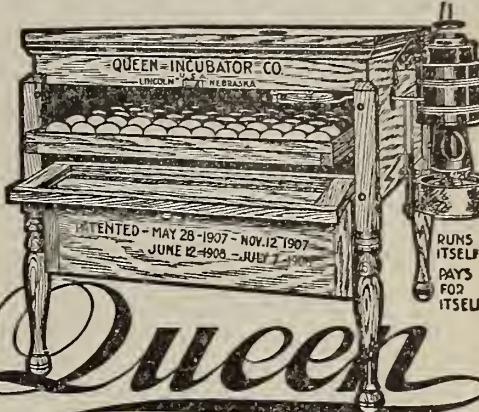
**Take Care of the CHICKS
And the DOLLARS Will
Take Care of Themselves**

How to hatch the eggs you set, and raise the chicks you hatch is the help I can give every poultry raiser who reads this advertisement and will write for my **Free Queen Incubator Book**

Many thousands of poultry raisers have read this book and by following its advice, they get better results and make more money out of their poultry work.

Last year while all other incubator manufacturers complained of falling off in orders the sale of Queen Incubators more than doubled, and most of our orders came from our old customers. Isn't this proof that the **Queen** makes good? Let me send you more proof. My Queen Book is full of it. Write for it now, while you think of it.

Wickstrum Box 68, QUEEN INCUBATOR CO., Lincoln, Nebr.



POULTRY MEN-- Send 10c for our 1909 Catalogue. Chuck full of useful information. Describes and Illustrates 35 Varieties. You Can't Afford to be Without it.
EAST DONEGAL POULTRY YARDS, Marietta, Pa.

CHAPMAN'S IMPROVED TRAP NEST!

Is proclaimed by all poultrymen who have seen it to be the most practical and best made nest on the market today. Hundreds of letters and orders are coming in from all over the United States and without a word of dissatisfaction from a single customer; the reason is, because this nest can be depended upon to absolutely trap the hens.

The Chapman nest is made upon honor and constructed on mechanical principles that are bound to make it the leading Trap Nest of the world. A trial order will prove it and we guarantee to refund the money if it does not trap the birds. Write for catalogue.

3 NEST SIZE, \$3; 6 NEST SIZE, \$6.
CHAPMAN TRAP NEST COMPANY
Weld Bldg., BOSTON, MASS.

MISTER POULTRYMAN!

What are you going to do **ABOUT SOME FRESH BLOOD IN YOUR YARDS** the coming season?

HOW ABOUT A COCKEREL FROM THE BILTMORE YARDS?
We have a thrifty lot of 1908 hatch

COCKERELS and PULLETS

Barred Rocks, White Rocks, White Wyandottes, Brown Leghorns, White Leghorns. 500 Pigeons for sale. Write for prices, etc.

BILTMORE FARMS, Poultry Dept. **BILTMORE, N. C.**

Show at Pulaski, Tennessee

Was a great success, many good birds being on exhibition. Judge T. Reid Parrish placed the ribbons. We are indebted to Secretary W. B. Romine for a list of the winners.

McMinnville, Tenn., Show a Good One

More than 400 birds were on exhibition, and surprise was expressed by many present that such quality and quantity could be shown at a first show. The town of McMinnville and Warren County made a most creditable showing. Everybody was surprised and delighted.

Somerville, Tennessee's, First Show

Dr. J. A. Albright, president, and Prof. W. T. Loggins, Secy., are responsible for a show at Somerville, Tenn. It was quite a success for the first one. Among the prize winners were: S. C. Brown Leghorns, 1st pen, Lee Pierce; 2nd pen, N. S. Latta; 1st ckl, Dr. Albright; B. P. Rocks, 1st pen, C. C. Williams; 2nd pen, H. L. Maddox.

Birchett's Winnings

H. R. Birchett, Lebanon, Tenn., writes as follows: Besides winning 1st pen on each of my breeds—Blue Andalusians, White Faced Black Spanish, S. S. Hamburgs, S. C. White Leghorns and Rouen Ducks—I won on specials silver cup for best pen of White Leghorns, silver cup for best pair ducks in the show, five dollars in gold for largest and best variety and many small cash prizes.

Childress' White Leghorns

Jno. F. Childress, of Sweetwater, Tenn., certainly "cleaned up the platter" at Asheville show with his White Leghorns—winning first, second and third cockerel; second, third and fourth pullet; first and second hen; first pen—winning THE INDUSTRIOUS HEN Cup for highest scoring pen in show after being handicapped 5 points—also sweepstakes cup for best display—this is worth crowin over.

The Great Washington Show

The third annual show to be held in Washington, D. C., Jan. 26 to 30, 1908, by the Columbian Poultry and Pigeon Association promises in every way to eclipse all former shows held in that city. The management has spared no efforts to make it a success and believes that the fanciers who fail to take advantage of what has been accomplished will make a great mistake both financially and otherwise. An excellent corps of judges has been selected for this year's show, a very liberal premium list is offered, and in addition thereto a very large and attractive list of cash and other specials. Address Calvin Hicks, Sec'y, Rockville, Md., for premium list.

S. C. Buff Orpington Eggs

My breeding pens contain selected females, headed by the two grand cockerels that tied for 2nd at Bristol, the South's greatest show. 100 Buffs in competition. Eggs at low prices now. Will sell one of above males.

LINWARD S. McGHEE, Bristol, Tenn.

**S. C. RHODE ISLAND REDS
WHITE ROCKS**

Bred for egg production and fancy show points. Stock for sale.

Eggs \$2.00 per 15.

ERNEST A. MARVIN, White Hall, S. C.

COLUMBIAN WYANDOTTES

My matings include only standard weight, vigorous birds, with correct markings and grand shape, including 1st cockerel, 1st pullet and 1st pen, Hot Springs, 1908. Eggs \$3.50 per 15.

OTIS T. WINGO, DeQueen, Ark.

STOP AND LISTEN!
Rose and Single Comb R. I. Reds
and Indian Runner Ducks.
STOCK AND EGGS FOR SALE
GEO. GREENE, Bentonville, Ark.**51 CHICKS from 50 EGGS**

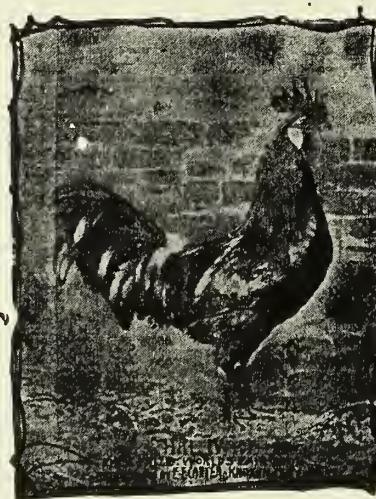
at least 4 times with our self-regulating, "guaranteed-to-hatch-every-hatchable-egg," BUCKEYE INCUBATOR

SENT ON 40 Days' Free Trial

See these prices: 50 Egg Incubator, \$4.95. 50 Chick Brooder, \$3.95—Both \$8.75. 17 years' success behind us. Write for names and addresses of users who have got wonderful results with BUCKEYES.

GET OUR FREE BOOK giving prices and larger sizes of INCUBATORS, BROODERS and POULTRY supplies. Write today.

BUCKEYE INCUBATOR COMPANY, 112 Southern Av., Springfield, O.

First Cockerel World's Fair

1st HEN
1st PULLET
1st PEN
2d COCKEREL

Carter

Wins

3 BLUES
3 CLUB RIBBONS
1 SILVER CUP
(For 5 Highest Scoring Browns)
and more

Cash

than all competitors combined
at Knoxville.

If you want my circular on
Brown Leghorns, address

E. E. CARTER
KNOXVILLE, TENN.
Dept. I. H.

PHILADELPHIA

CHASE'S
Blood and Nerve Tablets
Build Up the Weak,
Emaciated, Convalescent
and Over-worked
Price, 50c. Book free. Dr. Chase,
224 N. 10th St., Philadelphia, Pa.

**FEED 10¢
Per Bushel**

More Poultry Profits
are quickly and easily made
by more economically feeding and handling your birds. Do not pay more than 10 to 15 cents per bushel for your main feed. You can easily care for 2000 layers and 3000 chicks, unassisted, by using my method, and also save \$25 on every 100 birds raised to maturity. Get my new illustrated book, "Profits In Poultry Keeping Solved"—it tells how. The third edition of 5000 is just off the press and the books are selling rapidly. Visit my plant and study my method in actual use where 3000 White Wyandottes and S. C. Leghorns are growing for fall and winter trade. Write for circular and testimonials and learn how to raise fully 95 per cent of all chicks hatched. Do it today—now—they're free.

EDGAR BRIGGS
BOX 150 PLEASANT VALLEY
NEW YORK

Headquarters for
Poultrymen

HOTEL IMPERIAL

Knoxville's Most Modern
and Up-to-Date Hotel

LONG DISTANCE PHONES
IN EVERY ROOM

Rates \$2.50 and up. Rooms
with Bath, \$3.50 and
\$4.00 per day

AMERICAN PLAN

THE BEST CURE

Chickens' Eyes Swelled Shut.
 "I consider Germozone the greatest poultry medicine ever placed on the market. I have cured chickens that had Roup so bad that both eyes were swelled shut, and it only required two treatments." F. MILLER,
B. Langshans and M. P. Ducks.
 Centerville, Iowa.

The experience of Mr. Miller is only that of thousands of other breeders who have found in Germozone the one reliable cure for this dread disease so common with poultry.

**GERMOZONE**

is not the product of a month, a day, or a year. For more than 12 years it has been the standard medicine of the poultry world and the fact that it is more popular today than ever before is the best proof of its real value.

Germozone is a germicide, a bowel regulator, a system builder. It goes to the seat of the trouble and effects a sure and permanent cure.

Given in the drinking water twice-a-week it cures disease, prevents contagion, and keeps the fowls in a healthy, vigorous condition. Prepared either in tablet or liquid form and will be sent, postpaid, on receipt of price.

Germozone is the best health insurance you can have for your poultry. Cost is small, and it is sold on an absolute guarantee.

Price 50 cents.

GEO. H. LEECO., Sole Mfrs., 1136 Harney St., Omaha, Nebr.

Send for free books—"Mandy's Poultry School," "20 Years with Poultry," "Incubator Hygrometry," or 1909 Catalog Mandy Lee Incubators and Brooders.

GENERAL AGENTS: BOSTON, MASS.—Fiske Seed Co.;

TAMPA, FLA.—Crenshaw Bros. Seed Co.; SALT LAKE CITY, UTAH—Porter-Walton Co.; DALLAS, TEX.—Robinson Plant and Seed Co.; LOS ANGELES, CALIF.—Henry Albers Co.; PORTLAND, OREGON—Portland Seed Co.

Eggs in Winter

When eggs are highest in price and the hens won't lay, there is something wrong with the way they are fed.

Give them about the same kind of food as they would pick up in summer, experienced authorities tell us, and nature will do the rest.

When it is remembered that cut green bone easily takes the place of bugs and insects and makes the hens lay even when it's zero, it is not surprising that poultry keepers are rapidly adopting cut bone as a feed.

One of the quickest and best ways to prepare bone is by using what is known as the Crown Bone Cutter, made by Wilson Bros., Box 646, Easton, Pa.

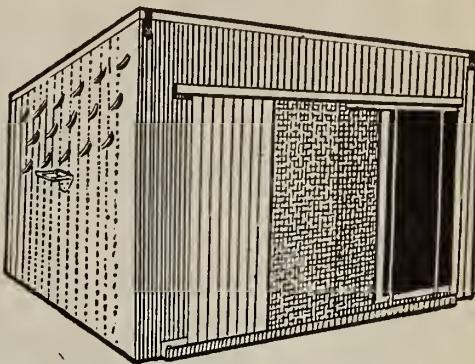
This firm has had long experience and their machine is very widely used. They have issued a complete catalogue on the subject, which they will send you if you ask for it.

Bristol, Tenn., Show

Bristol promised a great show this year and the promise was well carried out, with more birds than either Nashville or Knoxville. Bristol may well claim the banner show of the South. The chief beauty of the exhibit lay in the way each prominent class was well filled with first class specimen. The Orpingtons were great in number and quality, closely followed by R. I. Reds. Bristol always makes a fine display in Black Langshans and this year was no exception. The Buffs, Wyandottes and Leghorns were a beautiful display, with that true soft buff so hard to get. Griffin of Bristol and Adams of Lynchburg, are to be envied the quality they raise. A Buff Leghorn pullet, score 96, led the show. Brown and White Leghorns were out in force as also Barred and White Rocks, White and Partridge Wyandottes and a fine class of Black Minorcas. This breed has made a fine showing this year at the Southern shows. Black Orpingtons of quality were a feature of the show. We append a few notes made by Judge Drevestadt for THE INDUSTRIOUS HEN. He found the quality of the show as good as at most Eastern shows. Bristol should have two judges next year.

NOTES BY J. H. DREVENSTADT ON BRISTOL SHOW.

Quality in many classes are equal and in a few are superior to that seen at first-class shows in the North. *Black Langshans*—fine class; far ahead of what is usually seen at big shows; 1st cock, hen and cockerel noticeably good. *Buff Orpingtons*—surprisingly good and quite uniform in quality; first cock, hen and pullet of the very best and classy enough for any show. *Brown Leghorns*—especially strong in males; notably first cock a great bird in color and style. Many cocks excellent. *White Leghorns*—strong classes; type of combs being correct, plumage very white, good legs and head points in winners. *Buff Leghorns*—ex-

RAT-PROOF COOP

Protect Your Chicks From Rats, Mink, Weasel, Skunk, Lice and Mites

The Sanitary Metal Brood Coop

is just the thing you've been looking for. It's a boon to poultrymen for it means safety, clean quarters and health to the brood. It's made entirely of galvanized iron, not a splinter of wood in it. You know you can keep it vermin-proof. Purge it in the fire if you want to.

No Dampness, No Roup

Chicks and mother always perfectly dry. Exclusive pattern made and sold only by us. Adds 100 per cent to profits and keeps down cost and expense of poultry raising. Made in knock-down form. Can be taken apart and stored in little space when brooding season is over.

Write for free circular, fully describing this and full line of other sanitary appliances.

DES MOINES INCUBATOR CO.
 252 Third St., Des Moines, Iowa

cellent, especially first pullet; a gem in shape and color. *Black Minorcas*—quite good class in quality of winners, type and color being very close to Standard. *Barred Rocks*—strong in spots; first cockerel a very fine specimen in shape and very closely and evenly barred; 1st, 2nd and 3rd pullets of the narrow straight type, good in color. *White Wyandottes*—of show quality, 1st, 2nd hen and 1st pullet beauties in type and color; in fact the female class was first class. *Buff Wyandottes*—also good in quality; some of the winning pullets scoring very high; color being especially good. *Partridge Wyandottes*—good type and color. *Black Orpingtons*—strong in spots. *White Orpingtons*—too light in weight but 1st hen was very good in type and color.

S. C. R. I. REDS

NOT INBRED

GOOD LAYERS! WINNERS TOO!

Won at Asheville, N. C., December 1-4, 1908, 1st and 2nd pullet. My birds are a rich dark red, the kind that does not fade easily.

Eggs \$2 for 15; \$8 for 100.

JOHN M. TRENTHEM, Russellville, Tenn.

BARGAIN

In a Few S. C. R. I. Red Cockerels
WRITE QUICK

MUCKALEE POULTRY YARDS

L. P. GARTNER, Prop. Americus, Ga.

THE BEST WAY TO SELL POULTRY

Is to advertise in a paper that (1) is read by most farmers; (2) and encourages them to buy the best bred poultry.

Such a paper is the

PROGRESSIVE FARMER, Raleigh, N. C.

TWICE the circulation of any other weekly, daily, or monthly published between Richmond and Atlanta.

"In a few weeks after I advertised in the *Progressive Farmer* I sold all the poultry I had for sale, and could have sold more. I did not intend selling any Brown Leghorn pullets and only advertised cockerels, but had so many inquiries from your readers that I was forced to sell pullets, also."—J. C. Williams, Sanford, N. C. Nov. 16, 1908.
 WRITE FOR RATES.

**S. C. RHODE ISLAND REDS
 COCKERELS AND PULLETS**

Will sell cheap. Need the room.

JOHN W. BROWN, Thorn Grove, Tenn.

BLACK MINORCAS & BARRED PLYMOUTH ROCKS**Our Pens Contain Only High-Class Breeders**

Won at Pickens, S. C., Barred Rocks: 1st, 2nd, 3rd pullet; 1st pen; best pair. Single Comb Black Minorcas: 2nd cockerel; 2nd hen.

Write for descriptive circular and mating list **Our Motto: Quality** Eggs \$2.00 for 15 \$3.50 for 30

HILLCREST POULTRY FARM, Ninety Six, S.C.
 R. G. McCANTS, Proprietor.

M Victor Incubators are Machines that Profit Ertel's Poultry Diary is a Record that Tells

To make money from poultry you must not waste your eggs, oil or time. You cannot afford to fool with a machine which makes poor hatches, or which fails and destroys all your effort. Ertel machines are not that kind. They are correct in design, perfect in operation, and sure in results. We build them to meet the rules of the Fire Underwriters, and to conform in all respects to the suggestions of the United States Department of Agriculture. You want our new book for 1909 because it tells all about these machines and also about how to keep records that tell what your poultry is producing in the way of profit. There are spaces for egg production, incubator results, and the expenditures and receipts from poultry account. Poultry raising is a business which must be conducted on business lines. To succeed you want modern machinery, and business-like methods of recording the results.

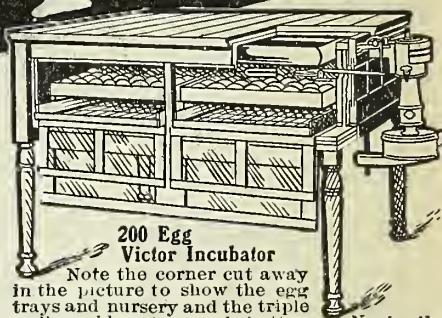
Ertel's Poultry Diary

tells about the latest and best incubators and brooders, and how you can get them at prices that are low, and have freight paid to your railroad station. It also provides the blanks for keeping the proper records. Better write us today, and get the advantage of the information this book contains. Use this coupon or drop us a postal card mentioning this paper.

Established 1867

GEORGE ERTEL COMPANY,

Quincy, Ill.



**200 Egg
Victor Incubator**

Note the corner cut away in the picture to show the egg trays and nursery and the triple walls—sides, top and bottom. Note the double glass doors. Note the new side regulator which leaves the top free and clear. Note the big generous lamp. Note the big 14 ounce copper tank.

GEO. ERTEL CO., Quincy, Ill. 12345

Please send me "Ertel's Poultry Diary" and give me a special price on a egg Incubator.

Name.....

Postoffice.....

Route No. State

American Cornish Club Election

At the annual meeting of the American Cornish Club held in Chicago Dec. 16, 1908, the following officers were elected: President, R. D. Reider, Middletown, Pa., 1st Vice-President, C. S. Brent, Oconomowoc, Wis., 2nd Vice-President, J. W. Southmayd, Chandler, Okla., 3rd Vice-President, F. H. Williams, Long Beach, Calif., Secy-Treas. H. C. Hays, Eureka, Ill., Executive Committee, W. S. Templeton, R. D. Reider, C. S. Brent, H. C. Hayes.

Private—Don't Read This

Regular Price.

Industrious Hen	\$.50
Rural Weekly, St. Paul, Minn.	.25
Carrier and Patron, Atlanta, Ga.	.25
American Farmer, Indianapolis	.40
Rural Georgian, Gainesville, Ga.	.25
	\$1.65

All of the above one year for 75c.

World's Work, Delineator and Hen,
all three for one year.....\$2.75
Everybody's, World's Work and Hen..... 3.00
Country Life in American, and Hen..... 3.75

The Farm Journal, Phila., will be sent five years for 60c. additional. Send cash with order to THE INDUSTRIOUS HEN CO., Knoxville, Tenn.

CHEROKEE FARM

S. C. R. I. Reds and R. C. Br. Leghorns,
M. B. Turkeys, Toulous; Geese, Indian
Runner and Pekin Ducks, Aberdeen Angus
Cattle. We have fine stock of the
BEST STRAINS OF EACH

**C. W. HICKS, Proprietor,
MADISONVILLE, TENN.**

**FALL'S
Business College and
Telegraph Inst.**
BROADWAY AND EIGHTH AVE.
NASHVILLE, - - TENN.

OLDEST-BEST

PREPARES AND PLACES STUDENTS

Excellent Faculty, Method and Influence. Our students are recognized as thoroughly competent and good positions are assured graduates. Tone of school endorsed by Cleary. References from the Governor of Tennessee, six Ex-Governors, leading business men, and State and Railroad Officials of Tennessee.

SEND FOR FULL INFORMATION

S.C. Rhode Island Reds



S. C. R. I. Red 1st prize cockerel at Birmingham and 2nd at Mobile. C. W. Eady, Guntersville, Ala.

Eady's Winnings of 1908: At five leading shows; at Alabama State Fair, he won: 1st cock, 1st and 3rd cockerel 1st pen and 2nd pullet, also special for second best pen in American class and \$10.00 cup for best display of any one variety. He won at Mobile Poultry Show, 1st, 2nd, 3rd and 4th pullet, 2nd cockerel and 3rd cock. Also won club ribbon for best colored females. Birds entered single could not compete for pen; he only entered six birds.

At Gadsden Poultry Show he won five firsts and two seconds.

The great Southern show, Houston, Texas, only entered six birds and six prizes—2nd and 4th cockerel, 3rd and 4th hen, 2nd pullet and 2nd pen.

Stock and eggs for sale; pens mated Jan. 1, 1909; eggs from \$2 to \$5 per 15. Let us book your order early.

C. W. EADY
Guntersville, Ala.

Mrs. Bridgewater's Buff Orpingtons

No more earnest nor enthusiastic exhibitor at the Greater Nashville show was to be found than Mrs. S. C. Bridgewater. Early and late she was with her beautiful Orpingtons providing for their comfort and wants. Her birds have made some excellent winnings and if you will look up her ad. in this issue will be convinced that she has some superior birds.

Allison's S. C. White Leghorns

Again prove the best in the South. At the great Frankfort, Ky., State Show in the hottest competition they won 1 ckl, 1-2 pul, 3-5 hen, 2 pen. Gold special on cockerel, special on pullet. Pierce, Judge. If you want quality write T. S. Allison, 28th & Slevin St., Louisville, Ky. He will guarantee to please you.

New Books with the Hen

Egg Dainties.	How to cook eggs 150 ways	.50
Egg Dainties.	To cook eggs 150 ways....	.50
Egg and Poultry Raising at Home.....		.50
Hens...How to keep Laying Hens.....		.25
Poultry Farming Profitable.....		.50
Popular Poultry Keeping.....		.50

Add 25c. to any of the above books and THE HEN will be sent for one year. Add 75c. for three years.

Industrious Hen Co., Knoxville, Tenn.

Notable Poultry Book

One of the most complete and thoroughly practical works of its kind is a handbook, entitled "Greider's Book on Poultry," by B. H. Greider, a recognized authority on this subject.

The edition for 1909 illustrates sixty of the leading strains of chickens, turkeys, ducks, geese and pigeons, and gives information as to their qualities, characteristics, etc., that could scarcely be had from other sources.

One of the special features of the 1909 edition is fifteen chromos, illustrating as many breeds in the attractive colors of their plumage. Some space is also devoted to Greider's Germicide, a preparation originated by Mr. Greider and said to be very effective in ridding fowls of lice, mites and disease.

This book will be mailed for ten cents, in coin or stamps, by the author, B. H. Greider, Rheems, Pa.

Special to the Hen

NEW YORK, MADISON Sq., Dec. 30, 1908.

Industrious Hen, Knoxville, Tenn.

On Black Langshans, W. H. Cochrane, Bristol, Tenn., won 2 ck, 3-4 hen, 3 ckl, 5 pul.—a place on every entry.—H. V. Crawford, See'y Madison Sq. Poultry Show.

We Guarantee to**Make****Hens Lay**

Our Automatic Non-freezing Drinking Fountain furnishes fresh warm water for fowls and makes them lay during cold weather when eggs bring high prices. It takes the chill from the hen house. Costs only about 5 cents a week for oil. Water cup fills itself automatically. Won't freeze in zero weather. Guaranteed to increase your egg output 1/2 during winter. Shipped on 15 days trial. SEND FOR CATALOG.

Automatic Hatching Co., 32 State St., Flint, Mich.

We also make the famous Mother Hen Brooder.

\$50 Machine for \$16

FREIGHT PREPAID to your Station

Don't pay a high price for a sewing machine when you can get the famous INDUSTRIOUS HEN machine for \$16, delivered at your door, and guaranteed for ten years. It has

been on the market for 30 years under another name. Is high arm, ball bearing, noiseless, easy running, stand handsomely embossed, hand polished case, etc. Is modern in every feature, and the best that can be made. Will be sent freight prepaid, with a year's subscription to THE HEN for \$16, cash with order. Send for a few choice testimonials.

INDUSTRIOUS HEN CO., Knoxville, Tenn.

**12 Grand Easter Souvenir Post Cards—FREE**

The most beautiful Easter Cards ever produced—4 Angels, 4 Easter Flowers, 4 Crosses and Flowers; heavy embossed, colors and gold. Most tasty and appropriate Easter Cards in the world. Nothing else equal to them. Send 4 cents for postage and packing and we will send these 12 grand Easter cards free. Also our plan whereby you can get fifty other magnificent post cards free. Address THE SIMMONS PUBLISHING CO., 242 Washington St., Springfield, Ohio.

**Chick=A=Dee Farm**

DEVOTED TO POULTRY AND GENERAL FARMING,

S. C. RHODE ISLAND REDS & S. C. WHITE LECHORNS

Having decided to breed one breed, "ONLY," I am closing out a very choice lot of white Leghorn breeders at a very low price.

J. A. DINWIDDIE, ROUTE 3, NEW MARKET, TENNESSEE.

Thornhill's
BROWN
Leghorns

Are Bred to Lay. Are Bred for Show. Are Among the Best. Results Guaranteed. Booking Orders for Spring Delivery. Eggs, \$2.00 per 15.

THORNHILL'S POULTRY YARDS
NEW DECATUR, ALA.

The Great Washington Show

JANUARY 26, 27, 28, 29, 30, 1909

FOR PREMIUM LIST ADDRESS

CALVIN HICKS, Secretary, ROCKVILLE, MD.

ENTRYS CLOSE JANUARY 12, 1909

JUDGES

Miss Sophia C. Pitchlynn, John D. Jaquins, Henry R. Ingalls, E. B. Ulrich and A. D. Brown

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The College of Agriculture

At the University of Tennessee, Knoxville, will give this winter five two-weeks courses in agriculture, for the special benefit of farmers and farmers' sons. The courses are free, and any one or more may be taken. They are as follows:

1. Jan. 4-16. Soils and Crops. Fertilizers, systems of rotation, and general farm management.

2. Jan. 18-30. Live Stock. Feeds and feeding, score-card judging, and general live stock farming.

3. Feb. 1-13. Dairying. Milk production and manipulation. Butter and cheese making, feeding and care of dairy cattle, and general dairy farming.

4. Feb. 15-27. Truck and Fruit Growing. Soils and fertilizers for truck and fruit, selection of site and management of orchard.

5. Mar. 1-13. Bee Culture. Habits and development of the honey bee, management of an apiary, types of hives and culture of bee plants.

The East Tennessee Farmers' Convention offers \$100.00 for the county (Knox excepted) that sends the largest number of students; the money to be divided equally among the students from the winning county—on condition that as many as eight from one county take at least one full two-weeks course.

The State Fair Association offers \$75 for the county sending the second largest number of students.

The following prizes are offered to individual students:

\$10.00 for proficiency in judging light horses; offered by Judge Edward T. Sanford, Knoxville.

\$10.00 for the best essay on fertilizers with special reference to the value of potash; offered by the German Kali Works, New York.

\$10.00 for the best essay on the value of commercial fertilizers in the building up of poor land; offered by the Virginia-Carolina Chemical Co., Atlanta.

\$10.00 for proficiency in fertilizers; offered by Wm. S. Myers, New York.

\$10.00 for proficiency in feeds and feeding; offered by J. Allen Smith & Co., Knoxville.

\$10.00 for proficiency in the handling of cream separators; offered by the DeLaval Separator Co., New York.

\$10.00 for proficiency in judging beef cattle; offered by Davis & Susong, Knoxville.

\$10.00 worth of advertising in THE INDUSTRIOUS HEN for proficiency in bee keeping; offered by THE INDUSTRIOUS HEN Co.

\$10.00 worth of bee keeper's supplies, divided into three prizes, valued at \$5.00, \$3.00,

and \$2, respectively, for best three essays on "The Value of Bees to Fruit Growers"; offered by the A. I. Root Company, Medina, Ohio.

One three-wheel sweep rake, valued at \$25.00 for proficiency in all courses; offered by the International Harvester Co., Chicago.

East Tennessee Poultry Association

At Annual Meeting of the East Tennessee Poultry Association, Market Hall, Dec. 12th, there was a full attendance. Committee of three was appointed to look after legislation in the interests of poultry at the next legislature, T. L. Bayne, chairman; D. M. Owen and Sam. M. Cooper. They will work to get an appropriation for instruction in poultry culture at the University of Tennessee. The old officers were reelected, also the executive committee, except C. P. Hale, who was succeeded by A. J. Lawson, of Cleveland. J. C. Vaughn, of Lebanon, was elected Vice-President from Middle Tennessee. January 6-9, 1910, was chosen as date for next show. D. M. Owen was selected as one of the judges. The other will be selected at the next meeting of the Association the last Saturday in January, at 2 p. m., at the Board of Trade rooms, Knoxville.

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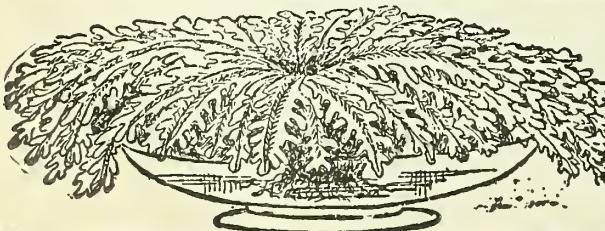
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I BREED THEM EXCLUSIVELY

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TRADE MARK



AN AUTOMATIC MOISTURE REGULATOR

I have the honor to offer you the first moisture regulator to regulate the moisture in the hatching chamber. A device that not only supplies moisture, but turns it on and off AUTOMATICALLY, as needed.

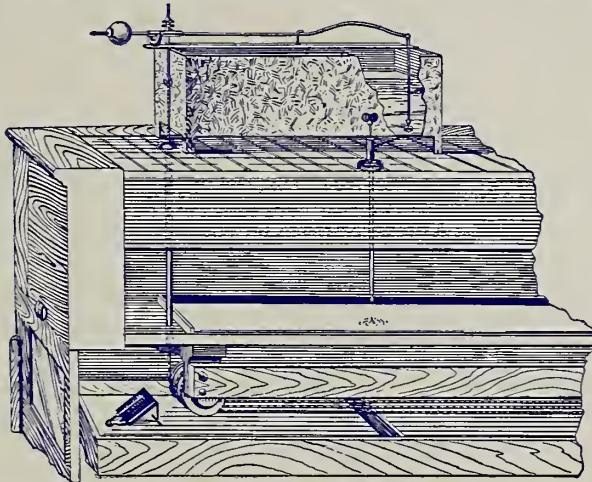
THE MODEL MOISTURE REGULATOR

Controls the degree of humidity in the Model Incubator just as the famous Model Thermostat controls the heat. Can be quickly and easily adjusted to any Model Incubator, old or new. A Special Hygrometer with each Regulator to be filled with water and set in on the egg tray near the thermometer that registers the heat, registers the humidity same as thermometer scale. When additional moisture is needed, a valve adjusted to give the proper humidity automatically shuts off and on the water supply.

Other devices continue to supply moisture whether needed or not. Too much moisture will do more harm than too little. If you want to supply moisture at all you require a Model Patent Humidor and Moisture Regulator.

THE MODEL PATENT FLAME EXTINGUISHER

New this year, is a practical device, that puts out the flame before the burner or oil become heated.



Automatic Moisture Regulator

Before the burner can become overheated, a small fusible link, attached to the base of the chimney part of the heater, melts, releasing a smothering cap suspended in the top of the chimney flue, and the flame is extinguished instantly.

Utterly impossible to heat the burner above a normal point.

All Model Incubators are now equipped with the Model Patent Flame Extinguisher.

THE MODEL PATENT AUTOMATIC LAMP FILLER

The greatest economizer of time and labor ever put on any incubator or brooder. Keeps the lamp filled throughout the hatch, and maintains a uniform oil level which insures a uniform flame.

The lamp fount is kept automatically filled from a barrel or tank which can be placed at a distance, or even outside of the incubating room. This is a labor and time saver for those operating a number of Incubators or Brooders.

As always, the improvements in the Model show distinct progress, insuring biggest hatches with lessened labor.

SEND FOR NEW DESCRIPTIVE LITERATURE.

CHAS. A. CYPHERS,
President

MODEL INCUBATOR CO., 332 Henry St.,
BUFFALO, N. Y.

C. W. HENDERSON & CO., MODEL INCUBATORS, KNOXVILLE, TENN.

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WHITE WYANDOTTES
BROWN AND WHITE
LEGHORNS : : :

Eleven Silver Cups and Hundreds of Prizes.

WE HAVE QUALITY

They have won nearly everything of consequence in all shows where we have exhibited, proving their unbeatable quality. We have hundreds of young birds ready for fall and winter trade, that will win. Write for Circular.

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MY BIRDS HAVE NEVER LOST

Book your orders now for the best in BLACK LANGSHANS—Won at Hagerstown, Jamestown Exposition, Augusta, Ga., Lexington, Ky., Birmingham, Ala., Knoxville and Bristol, Tennessee.

EGGS \$3.00 PER SETTING.

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Fowler's Champion Buff Plymouth Rocks

exhibited by me personally, have won seven times as many prizes as all competitors combined, and have won hundreds of prizes in the hands of customers at the very best shows of the country, including Marietta, Macon, Rome, Calhoun, Augusta and Atlanta, Ga.; Chattanooga, Nashville and Columbia, Tenn., Birmingham, Ala., Monroe, La., Ft. Worth, Dallas, Denton, Waxiehachie and Marshall, Texas, Charleston, Greenville and Columbia, S. C., Raleigh and Charlotte, N. C., Philadelphia, Pa., and the Great Jamestown Exposition. They are better this year than ever before. Grand breeders mated to produce show birds, for sale at reasonable prices. My matings this year are the best I ever put together. Eggs \$5.00 per 15, \$9.00 for 30. Catalogue Free. Special Representative THE INDUSTRIOUS HEN.

C. W. FOWLER, Box 2003, Smyrna, Ga.

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S. C. BUFF EXCLUSIVELY

I WILL NOT SELL EGGS.

for hatching next season. If you want some of the best stock of Orpingtons in the South, **BUY NOW.**

Prices reasonable. Please state your exact wants.

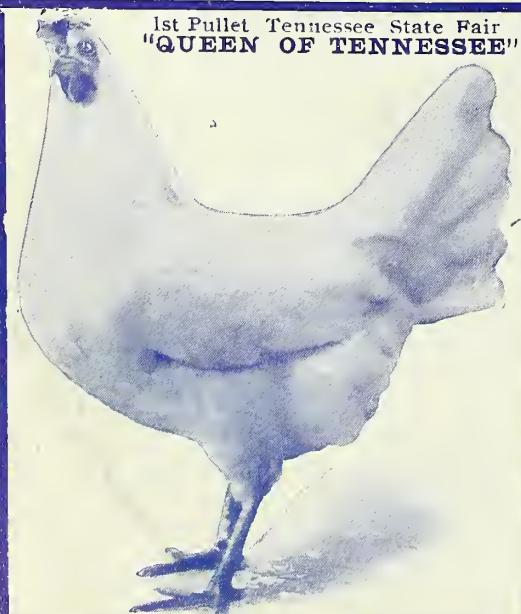
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My Buff Rocks are direct from the yards of C. W. Fowler, Smyrna, Ga., and no better can be found. Carefully mated for best results. Eggs \$3.00 per 15; \$5.00 for 30. My Barred Rocks are first class and am expecting some grand youngsters. A limited number of eggs at \$2.00 per fifteen. Address,

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CHILDRESS' S.C. White Leghorns

ACKNOWLEDGED BEST IN THE SOUTH

If you want strictly high-class birds, always go to the fountain head for them. My birds are scientifically mated, have low heavy tails, fine size and perfectly white.

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Have won prizes over the world's most noted breeders at Hagerstown, Cincinnati, Charleston, Atlanta, Birmingham, Chattanooga, Sweetwater, Knoxville, Tennessee State Fair.

Tenn. State Fair, 1st pullet, 2nd hen, 2-3 cockerel, 2nd pen, special for best pen shown by Tennessee breeder.

Augusta, Ga., 1-2 hen, 3-4 cockerel, 5 cock, 1st breeding pen. Silver cup for best pen. Sweepstakes cup for best display.

Asheville N. C., 1-2-3 cockerel, 1-2 hen, 2-3-4 pullet, 1st breeding pen. Champion cup for highest scoring pen in the show. Sweepstakes cup for best display.

Bristol, Tenn.-Va., 1-2-3 hen, 1-4 pullet, 2-3-4 cockerel, 1st breeding pen. Nat'l S. C. White Leghorn cup for highest scoring birds in the show.

Eggs, \$2.00, \$3.00 and \$5.00 per 15, from the above winners. Order today.

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